

Jim Gleason's GUITAR ENCYCLOPEDIA

Encyclopedia Of Scales

By Jim Gleason

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INTRODUCTION

There are thousands of possible scales, but most rock-related musicians and their audiences are familiar with ten or twenty. However, in the interest of new music, this book will provide new territory for all guitarists.

Uncommon scales may seem awkward or even useless in general improvisation, but any scale can be used in a composition if the harmonic structure (chord progression) supports it.

CHAPTER 2 EXPLAINS THE DESIGN OF THE SCALE GRID PAGES IN THIS BOOK.

BE SURE TO READ THE SPECIAL ADDENDUM: SCALES DEMYSTIFIED, AT THE END OF THIS BOOK.

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2	6/9 Type Pentatonic Scales
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6	Dominant 7/6 Type Pentatonic Scales
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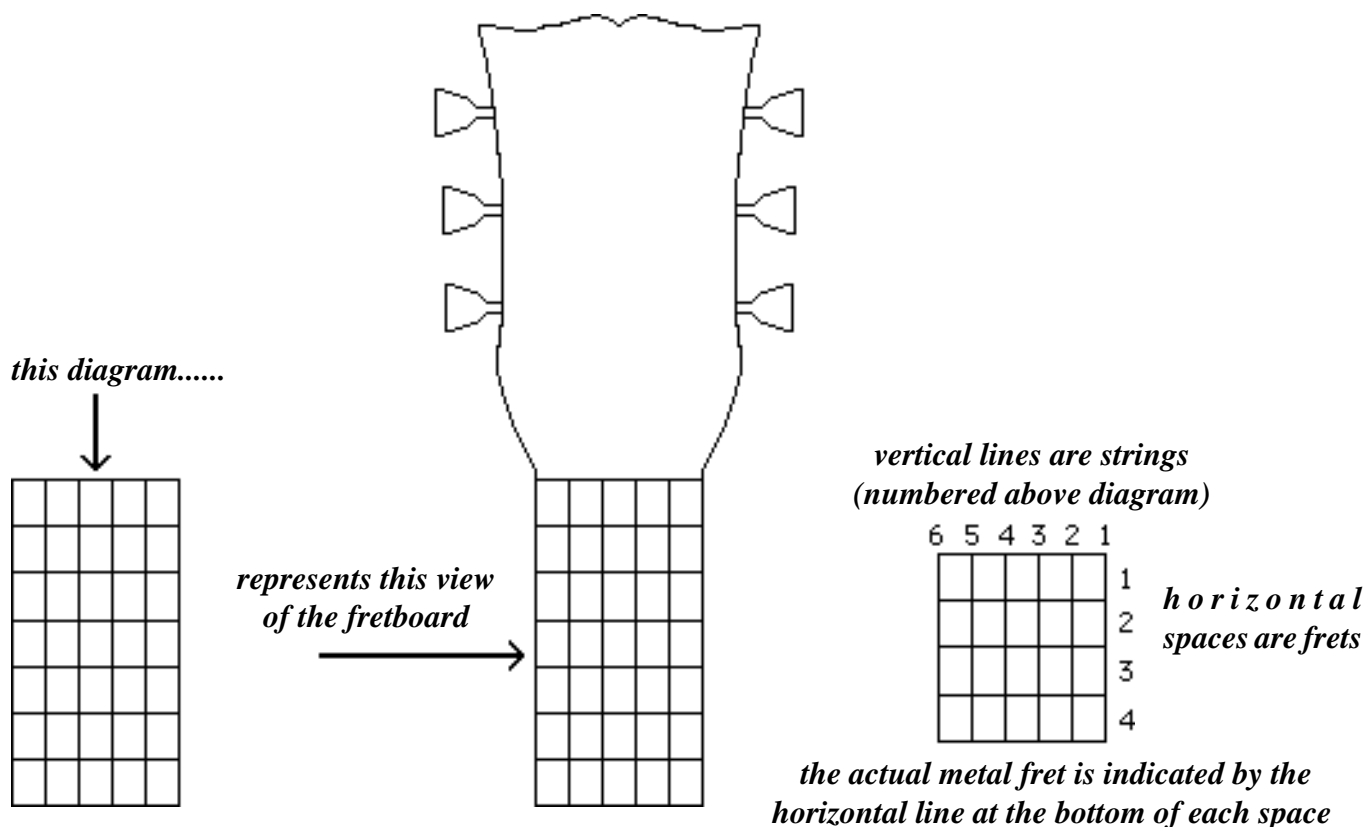
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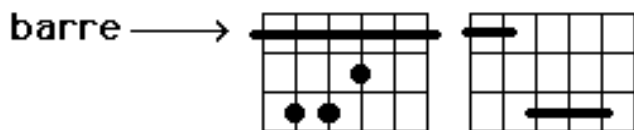
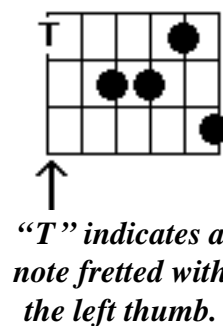
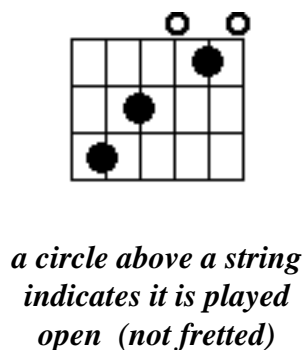
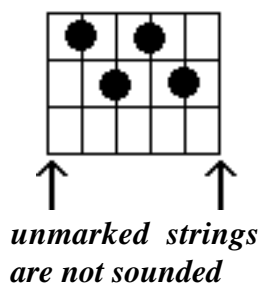
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FRETBOARD DIAGRAMS

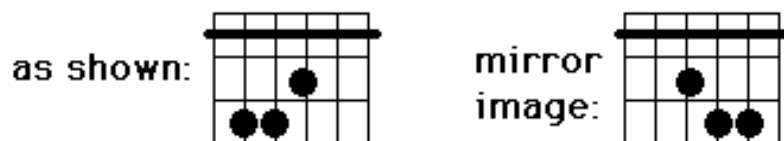


Dots in these diagrams indicate fingered notes. Chord tones are fingered simultaneously. Scale or arpeggio tones are fingered individually.

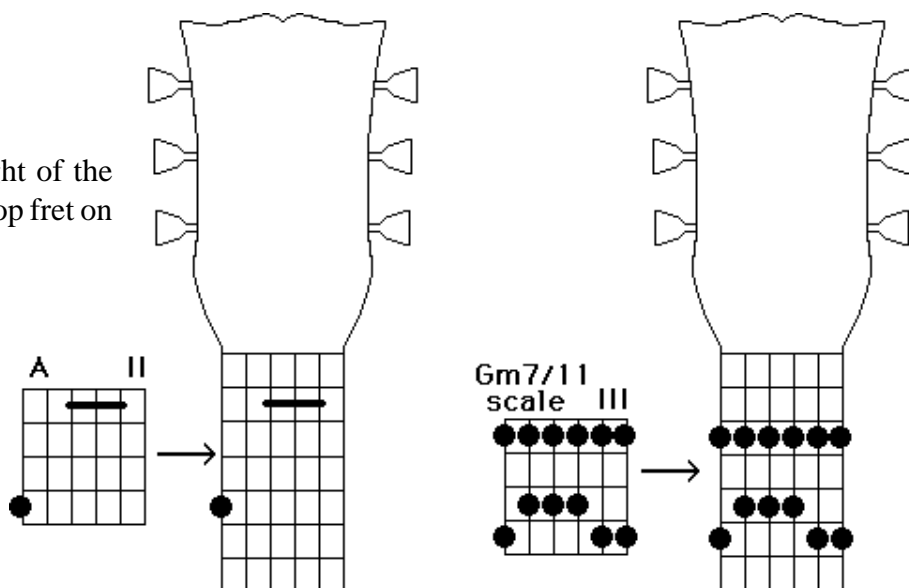


The *barré* is a group of notes all on the same fret of two or more strings fingered with a straight portion of one finger. It uses the classical wrist position. Finger (fret) the barre with the harder edge of your finger when you can. Avoid the creases opposite your knuckles, since they can mute notes.

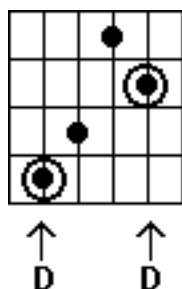
Left-handed guitarists. Interpret references to the right hand as left hand and vice versa. All diagrams must be imagined in “mirror image”:



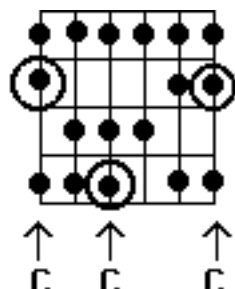
A **roman numeral** above the top right of the diagram indicates the number of the top fret on the diagram:



Dmaj. chord **II**



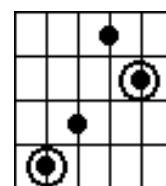
C Lydian Scale **VII**



A **chord root** is the note after which a chord is named (“D” is the root of a D major chord). A **tone center** is the note after which a scale is named (“C” is the tone center of a C Lydian scale).

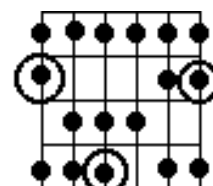
Movable diagrams have no roman numeral on their upper right and therefore have no specified top fret number. They may be placed anywhere on the fretboard according to their chord root(s) or tone center(s). If notes on a diagram are indicated by dots, a circled or enlarged dot indicates the chord root or tone center.

movable



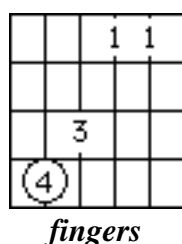
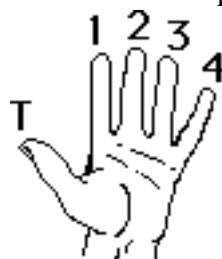
named after

movable

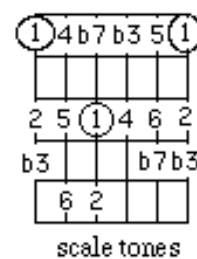
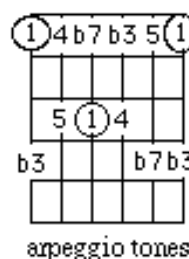
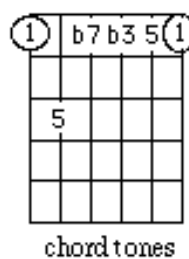


named after

The numbers 1, 2, 3 and 4 within diagrams indicate left hand fingers. The finger number on the chord root or tone center may be circled.

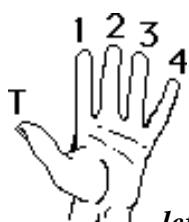
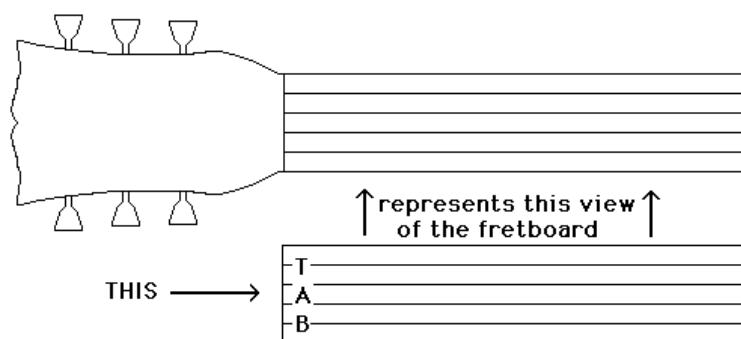


When numbers higher than 4 are used in a diagram, all of the numbers indicate scale, chord or arpeggio tones.

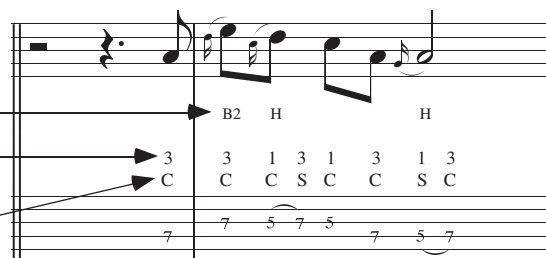


READING TABLATURE, FINGER NUMBERS AND SLUR MARKS

This system of notation is a graph of the guitar strings from the perspective of looking down on the guitar as you're playing it. The tablature indicates where each note is fretted. Numbers on the strings indicate frets and are written from left to right in the sequence they are to be played. In this book, tablature is written below all music notation. The row of numbers above the tablature indicates suggested fretting fingers.



slur marks
left hand finger numbers
chord & scale tone indicators



Slur Symbols (shown below music notation)

- B1 = bend an interval of 1 fret (a half step or one semitone).
- B2 = bend an interval of 2 frets (a whole step or two semitones).
- R = release bent note (note: all bends have a silent release unless "R" is indicated).
- (B1) = bend 1 fret before picking. Note was bent 1 fret previous to the current note
- (B2) = bend 2 frets before picking. Note bent 2 frets previous to the current note
- S = slide.
- H = hammer on.
- P = pull off.

ABBREVIATIONS & SYMBOLS

- | | |
|---|---|
| 7 = seventh chord (dominant) | 9 = ninth chord |
| 7#5 = seventh sharp five chord (dominant) | 9#5 = ninth sharp five chord (dominant) |
| 7b5 = flat five chord (dominant) | 9b5 = ninth flat five chord (dominant) |
| 7#9 = seventh sharp nine chord (dominant) | °7 = diminished seventh chord |
| C = C major chord | Cm = C minor chord |
| 6 = sixth chord (major sixth chord) | m6 = minor sixth chord |
| 6/9 = sixth add nine chord | m6/9 = minor sixth add nine chord |
| Δ7 = major seventh chord | m7 = minor seventh chord |
| Δ9 = major ninth chord | m9 = minor ninth chord |
| /9 = major add nine chord | m/9 = minor add nine chord |
| m7b5 = minor seventh flat five chord | sus. 4 = suspended fourth chord |
| m(♮7) = minor (natural 7) chord (minor, maj. 7) | sus. 2 = suspended second chord |
| n3 = no third | |
| n5 = no fifth | |

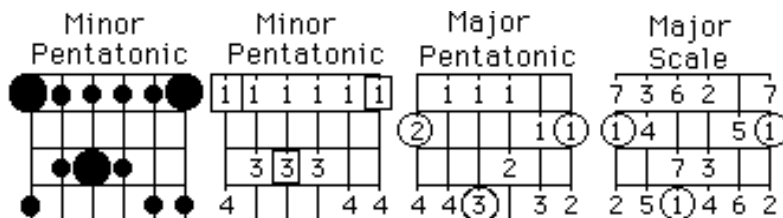
CHAPTER 1: TONE CENTERS

A. TONE CENTERS AND NOTE NAMES

Tone Centers

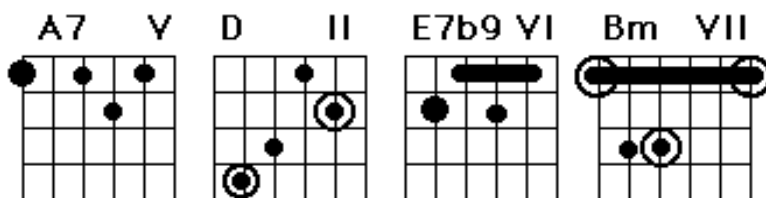
A *tone center* is the note after which a scale is named. “D” is the tone center of a D major scale and “E” is the tone center of an E minor scale. If a song is said to be in a certain key, the note after which the key is named is the tone center.

A tone center is the most emphasized note in a scale or melody. Many factors can contribute to the emphasis of a note: (1) frequent occurrence, (2) sustain, (3) occurrence on the beat (particularly on the first beat of a measure), (4) rhythmic duplication in the accompanying parts, (5) occurrence at the beginning of a chord, (6) being the last note in a phrase, and (7) being the root of the main chord. Whenever scales are shown on diagrams in this book, the tone centers are indicated by enlarged, circled, or “squared” notes:



A *chord root* is the note after which a chord is named. “D” is the root of a D7 chord. “Eb” is the root of an Ebm7b5 chord. The root is the main note of a chord. The *main chord* in a progression is the chord whose root is the tone center, the most resolved chord, and is the chord on which you expect the progression to end.

Whenever chords are shown on diagrams, the chord roots are indicated by enlarged or circled notes:



The listener’s “ear” expects a melody to end on a chord which has the tone center as its root. This final chord is called the “tonic chord”. If a song ends with a “deceptive cadence” where the last chord does not have a final sound, the listener still expects the song to end on the tonic chord.

Note Names

Note names progress up each string *in alphabetical order*: A, B, C, D, E, F, G, A, etc. The distance between “B” and “C” and between “E” and “F” is one fret. All other alphabetical pairs (A to B, C to D, F to G or G to A) are two frets apart. Memorize open string, fifth fret and twelfth fret note names. Locate all others by moving alphabetically up or down any string from these reference points.

Accidentals: Naturals, Sharps, and Flats

Natural notes (♮) have no sharp (#) or flat (b). They are indicated with a plain letter “A” through “G” or a letter followed by the symbol “ ♮ ,” such as “ G ♮ ” and “ D ♮ .”

Sharps (#). A note one fret to your right from any natural note uses the same letter name with a sharp (F#, C#, etc.).

Flats (b). A note one fret to your left from any natural note uses the same letter name with a flat (Ab, Bb, etc.).

Memorizing the Fretboard Note Names.

Memorize all natural notes (those without a sharp or flat) on the fifth and sixth strings, open strings, the fifth fret, the tenth fret and the five octave shapes shown on the next page. All notes in a single octave shape are one or two octaves apart, but have the same name. The octave shapes can be used to figure out the name of any note on strings one through four, once you have memorized all of the notes on the fifth and sixth strings.

Enharmonic notes are those which have two or more names for the same note:

A# = Bb	Cb = B	B# = C	C# = Db	D# = Eb
Fb = E	E# = F	F# = Gb	G# = Ab	

There are also *double sharps* ($\times\times$) and *double flats* (bb), which allow these enharmonic names:

A $\times\times$ = B	Bbb = A	B $\times\times$ = C#	Cbb = Bb	C $\times\times$ = D	Dbb = C
D $\times\times$ = E	Ebb = D	E $\times\times$ = F#	Fbb = Eb	F $\times\times$ = G	Gbb = F
G $\times\times$ = A	Abb = G				

FRETBOARD NOTE NAMES AND OCTAVE SHAPES

open strings

5th fret

12th fret

17th fret

"Z"

diamond

"Z"

diamond

"Z"

diamond

basic first position major chords whose roots occur in the octave shapes

E 641

D 42

C 52

A 53

G 631

E 641

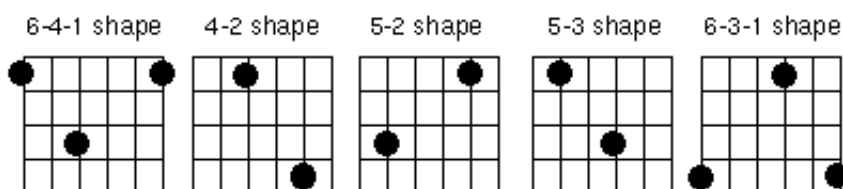
strings on which the octave shapes occur

B. THE FIVE OCTAVE SHAPES.

The “Diamond and Z”. Notice how all of the “C’s”, or all of the “G’s,” or all of any single note name on the fretboard forms a “diamond and Z” pattern on the previous page.

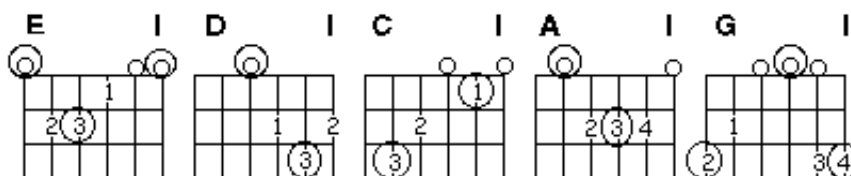
Five Octave Shapes With Numerical Names. The “diamond and Z” pattern can be broken down into five octave shapes. The shapes are named after the strings on which they occur.

the five octave shapes with numerical names



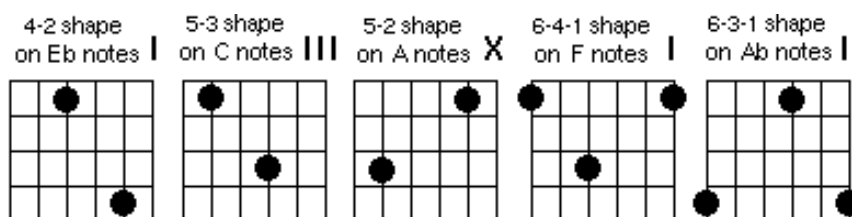
“ED CAGE.” The five octave shapes can also be remembered by relating them to these five major chords. The enlarged circles represent the chord roots. Each shape can be named after the chord or the strings on which it occurs. The first shape, for example, can be called the “E” shape or the “641 shape.”

the five octave shapes named after first position major chords



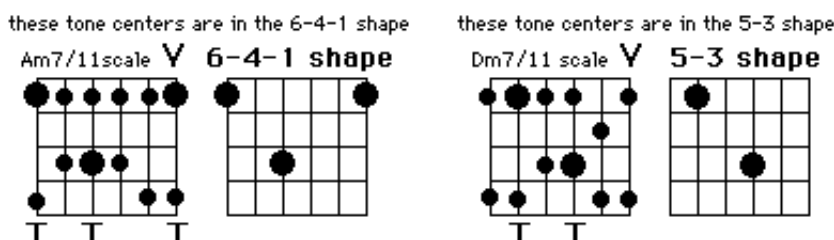
The five shapes are movable. The top of each diagram may be placed at any fret. When applied to chords and scales, these shapes provide a great learning advantage.

the five octave shapes are movable



The *shapes* may be placed on any note. Don’t confuse “shape” and note name. The “E” shape can be played on “F” notes, on “G” notes, or any notes.

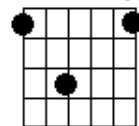
The Five Octave Shapes Applied To Scales. Every time you learn a scale, learn which notes are the tone centers. Learn which octave shape the tone center occurs in. Here are some examples (each “T” below the diagrams indicates the tone center):



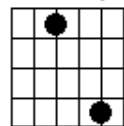
C. STRICT VERTICAL POSITION

Review the five octave shapes. "6-4-1" indicates that the notes are on the sixth, fourth and first strings. "4-2" indicates notes on the fourth and second strings.

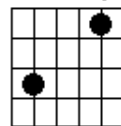
6-4-1 shape



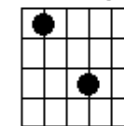
4-2 shape



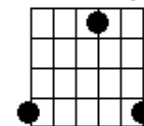
5-2 shape



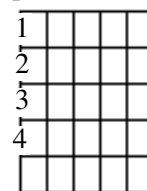
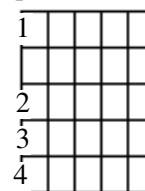
5-3 shape



6-3-1 shape

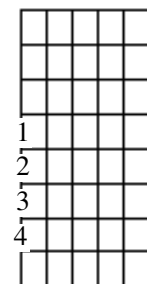
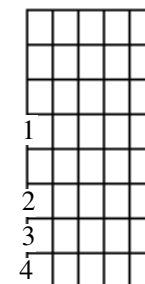


Position is the numbered fret at which the first (index) finger is placed. In the diagram at the right, the first finger is at the fourth fret, so it is in fourth position. Further qualification is necessary, since the first finger can reach out-of-position to the left. If the second finger is at the fifth fret, you would be in fourth position. If the second finger were at the sixth fret, you would be in fifth position, with the first finger reaching one fret to the left. This is called *strict vertical position*.

fourth
position IVfifth
position IV

Strict vertical position is used for single note patterns such as scales and arpeggios, not for chords or intervals. In strict vertical position, the position is numbered after the fret where the first finger is resting when it is *not reaching out-of-position*. The left hand fingers are assigned to four consecutive frets, with two exceptions:

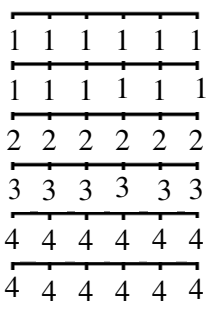
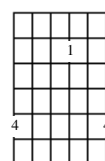
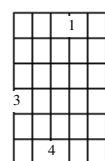
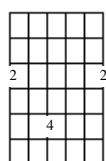
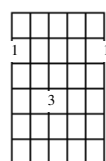
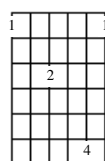
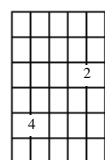
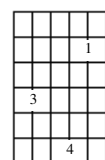
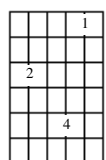
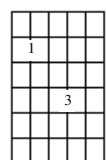
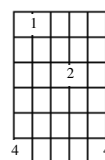
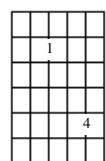
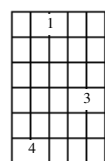
1. The first finger can reach out of position one fret to the players' left. This affects the position number.
2. The fourth finger can reach out of position one fret to the players' right. This does not affect the position number.

fourth
position Ififth
position I

D. OCTAVES OF ALL TWELVE NOTES

available in any single position (includes unisons)

Chose any position and play the twelve octave shapes shown below. You'll see that they chromatically cycle through all twelve notes. The notes in each octave shape do not have to be played simultaneously.

octaves
from the
sixth stringoctaves
from the
fifth stringoctaves
from the
fourth string

CHAPTER 2: PRINCIPLES OF FINGERING

A. THE FOUR METHODS OF FINGERING IN POSITION

Learn to finger all scales, arpeggios and chords with at least one version in each of the five octave areas. Find the fingerings which you will use most often. Regardless of how many fingerings you memorize, you'll be able to play certain ones faster and smoother. Choose fingerings according to the shape and flexibility of your hand. Most players find it easier to reach out-of-position with the first finger, while some find it easier to reach out with the little finger.

The notes on any five consecutive frets include two, three or four octaves of every note. The five frets may be covered by using one finger on each of four consecutive frets and reaching the fifth fret with either the index or little fingers.

To accommodate picking, it is often advantageous to move up one position for the second and first strings. When playing up a scale from the sixth to first strings, move up one position when you get to the second string.

The four methods of fingering in position used in this book are:

1. One finger on each of four frets, reaching any out-of-position notes with the index finger.
2. One finger on each of four frets, reaching any out-of-position notes with the index finger *and move up one position for the second and first strings.*
3. One finger on each of four frets, reaching any out-of-position notes with the little finger.
4. One finger on each of four frets, reaching any out-of-position notes with the little finger *and move up one position for the second and first strings.*

reach with index	reach with index, up 1 position on 2nd	reach with little	reach with little, up 1 position on 2nd
1 1 1 1 1 1	1 1 1 1	1 1 1 1 1 1	1 1 1 1
1 1 1 1 1 1	1 1 1 1 1 1	2 2 2 2 2 2	2 2 2 2 1 1
2 2 2 2 2 2	2 2 2 2 1 1	3 3 3 3 3 3	3 3 3 3 2 2
3 3 3 3 3 3	3 3 3 3 2 2	4 4 4 4 4 4	4 4 4 4 3 3
4 4 4 4 4 4	4 4 4 4 3 3	4 4 4 4 4 4	4 4 4 4 4 4
	4 4		4 4

B. TRANSPOSABLE FINGERING BY FORMULA

Each page of scale diagrams in this book shows a full fretboard scale pattern. It is the long, tall diagram on the upper left of the page. The numbers on that diagram compare the scale to a major scale, where the notes of the major scale are numbered 1, 2, 3, 4, 5, 6, 7. If the scale were the same as a major scale except the seventh scale step is flattened, the numbers would be 1, 2, 3, 4, 5, 6, b7. I'll call these *formula numbers*.

The diagrams in the vertical column with the numbers "641/42", "42", etc. above them also show formula numbers. The remaining diagrams on each page show only numbers 1, 2, 3, and 4 for the left hand fingers. Let's call those *finger numbers*.

All of the diagrams in this book are movable. They can be played in any key. To locate a scale on the fretboard for a particular key, place scale tone "1" on the tone center.

full fretboard with formula numbers

positions with formula numbers

positions with finger numbers

641 / 42

42

42 / 52

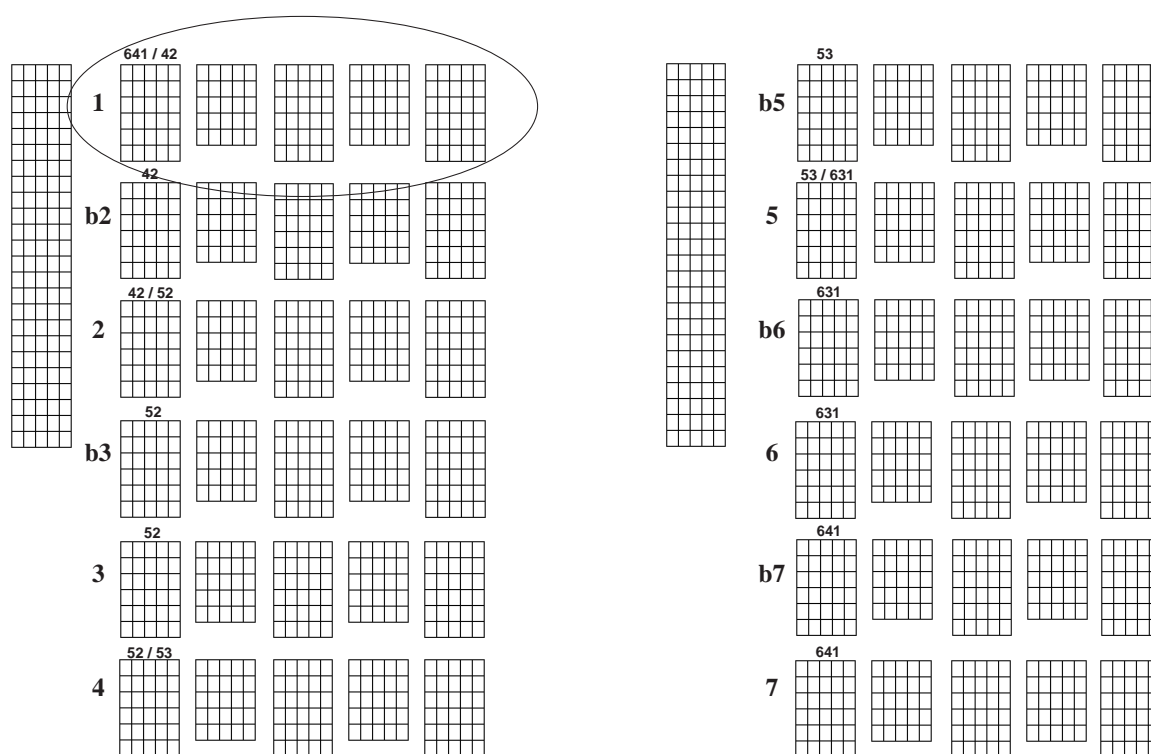
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C. REFERENCING TWELVE POSITIONS BY THE LOWEST PITCH ON THE SIXTH STRING

Each scale in this book is shown in all twelve positions. Four fingering styles are shown for each position. Those four styles were described in Section A of this Chapter.

The twelve positions are in order: down the left page, then continuing down the right page. They are labeled below with formula numbers to indicate the lowest-pitched scale tone on the sixth string. The circled position set below has the tone center, scale tone “1,” as its lowest tone on the sixth string. The position set below it is one fret to the players’ right. Each successive set proceeds up the fretboard one position.

If the scale contains a “5” tone in its formula, there would be a “5” at the top fret of the sixth string on the “53/631” diagram in the position set labeled “5” below.



D. MEMORIZED PATTERNS VERSUS IMPROVISED FINGERING

With over 7,000 scale fingerings in this book, it is not practical to memorize all of them. For the scales you use, it is practical to memorize a fingering for each scale tone beginning with the first finger on the sixth string. Most players will choose the fingerings which involve any necessary reaches out-of-position with the first finger. For a seven tone scale, for example, this involves seven fingerings.

For seven tone scales which can be played with three notes per string, you should also memorize seven of the fingerings where the position is changed on the second string. These will make memorization easier and will accommodate sweep picking.

The chosen fingerings are circled for the major scale on pages 144 and 145.

E. FINGERING STRATEGIES

General Rules.

When one rule conflicts with another, weigh the advantages and disadvantages of each.

Avoid difficult fingerings when speed or clarity is needed. Use smooth, easy fingerings for speed and clarity. This often involves avoiding use of the little finger.

Avoid using the second and third fingers spanned apart to leave an empty fret between them. Exception: Allan Holdsworth's style incorporates this commonly avoided span.

Avoid using the same finger on different frets of two adjacent strings.

Changing Position.

Avoid changing position until you have to, when improvising diagonally across the fretboard. Continue using a convenient fingering area until it presents a difficulty. This simplifies your position changes.

Shifting. Changing position by playing two consecutive notes on the same string with the same finger.. This is usually done with the index or little finger.

Sliding. Changing position by sliding from one note to another is usually done with the index or little finger.

Skipping from one position to another wastes time in movement, but can save time by using familiar fingering patterns which require little thought.

Compressing. Changing position where (1) the index finger plays two consecutive notes, moving to the right one or two frets, or (2) the little finger plays two consecutive notes, moving to the left one or two frets. In either case the first or little finger moves toward the center of the hand, arriving at the new position before the entire hand comes to rest in its normal form at the new position.

Guidelines For Out-Of-Position Notes.

1. Index finger out-of-position reaches are better than those with the little finger, because of the wider span between the index and middle fingers.
2. When playing intervals involving five fret spans on two or more strings, choose a fingering option with a whole step between the index and middle fingers. Otherwise, the whole step will probably occur between the ring and little fingers.
3. Identical fingering patterns on adjacent strings are desirable for ease of memorization and to conserve motion in the left wrist.
4. Hammers and pull-offs sometimes determine which out-of-position version of a note will be used.

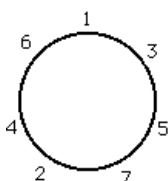
CHAPTER 3: SCALES AND CHORDS THAT MATCH

A. MAJOR SCALE TONE TRIADS AND SEVENTH CHORDS

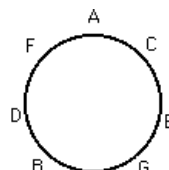
Tertian Harmony

Certain combinations of scale tones can be sustained together to make usable chords. Most commonly, the combined notes are constructed from the major scale by using an every-other-note pattern: 1, 3, 5, 7, 2, 4, 6, 1, 3, 5, etc. This is easy to conceive in a cycle of thirds, called a *tertian cycle*:

numbered scale steps



natural notes



Tertian chords built on the major scale can include as many as seven notes, the entire scale! Every key would use the cycle of letters shown above, but would include any sharps and flats associated with the key. F major scale, for example, has all natural notes except B flat.

Three note chords called *scale tone triads* are constructed with three consecutive notes from the tertian cycle. The chart below shows scale tone triads built on the major scale. The triad built on major scale step “1” includes scale tone “1”, “3” and “5”. The triad built on scale step “2” includes major scale tones “2”, “4” and “6”. Chord formulas compare the chord tones to a major scale on the chord root.

major scale-tone triad name	<u>major</u>	<u>minor</u>	<u>minor</u>	<u>major</u>	<u>major</u>	<u>minor</u>	<u>diminished</u>
major scale tones	135	246	357	461	572	613	724
formula	1,3,5	1,b3,5	1,b3,5	1,3,5	1,3,5	1,b3,5	1,b3,b5

F Major Scale Tone Triads

<p>E A D G E</p> <p>F Bb C F</p> <p>E A</p> <p>G C F Bb D G</p> <p>A D G C E A</p> <p>Bb F Bb</p> <p>E A D</p> <p>C F Bb G C</p> <p>E</p> <p>D G C F A D</p> <p>Bb</p> <p>E A D G E</p> <p>F Bb C F</p> <p>E A</p> <p>G C F Bb D G</p> <p>A D G C E A</p> <p>Bb F Bb</p> <p>E A D</p> <p>C F Bb G C</p> <p>E</p> <p>D G C F A D</p> <p>Bb</p> <p>E A D G E</p>	<p>note names I</p> <p>F Bb C F</p> <p>E A</p> <p>G C F Bb D G</p> <p>A D G C E A</p> <p>Bb F Bb</p>	<p>finger numbers I</p> <p>1 1 1 1</p> <p>1 1 1 1</p> <p>2 2 2 2 2 2</p> <p>4 4 4 4 4 4</p>	
	<p>F I</p> <p>R 5 R 3 5 R</p> <p>F C F</p> <p>A</p> <p>C F</p> <p>1 3 4 2 1 1</p>	<p>Gm III</p> <p>R 5 R b3 5 R</p> <p>G Bb D G</p> <p>D G</p> <p>1 3 4 1 1 1</p>	<p>Am II</p> <p>b3 5 R 5</p> <p>E A</p> <p>C</p> <p>E</p> <p>2 1 1 4</p>
	<p>Bb I</p> <p>R 5 R 3</p> <p>Bb</p> <p>F Bb D</p> <p>1 3 3 3</p>	<p>C III</p> <p>R 5 R 3</p> <p>C</p> <p>G C E</p> <p>1 3 3 3</p>	<p>Dm I</p> <p>b3 5 R b3</p> <p>F</p> <p>A</p> <p>F D</p> <p>3 2 4 1</p>
	<p>E dim I</p> <p>b5 R b5 b3</p> <p>Bb</p> <p>E</p> <p>Bb G</p> <p>1 2 3 4</p>	<p>F I</p> <p>R 5 R 3 5 R</p> <p>F C F</p> <p>A</p> <p>C F</p> <p>1 3 4 2 1 1</p>	
	<p>F I</p> <p>R 5 R 3 5 R</p> <p>F C F</p> <p>A</p> <p>C F</p> <p>1 3 4 2 1 1</p>	<p>Gm III</p> <p>R 5 R b3 5 R</p> <p>G Bb D G</p> <p>D G</p> <p>1 3 4 1 1 1</p>	<p>Am V</p> <p>R 5 R b3 5 R</p> <p>A E A</p> <p>E A D</p> <p>1 3 4 1 1 1</p>
	<p>Bb VI</p> <p>R 5 R 3 5 R</p> <p>Bb F Bb</p> <p>D</p> <p>F Bb</p> <p>1 3 4 2 1 1</p>	<p>C VIII</p> <p>R 5 R 3 5 R</p> <p>C G C</p> <p>E</p> <p>G C</p> <p>1 3 4 2 1 1</p>	<p>Dm X</p> <p>R 5 R b3 5 R</p> <p>D F A D</p> <p>A D</p> <p>1 3 4 1 1 1</p>
	<p>E dim XI</p> <p>R R b3 b5</p> <p>E</p> <p>G</p> <p>E</p> <p>T 4 2 1</p>	<p>F XIII</p> <p>R 5 R 3 5 R</p> <p>F C F</p> <p>A</p> <p>C F</p> <p>1 3 4 2 1 1</p>	

The chart below shows *major scale tone seventh chords* are constructed with four consecutive notes from the tertian cycle. Four types of tertian seventh chords can be constructed on the major scale: $\Delta 7$ (major seventh), 7 (dominant seventh), m7 (minor seventh) and m7b5 (minor seventh flat five). The seventh chord built on major scale step “2” includes scale tones “2”, “4”, “6” and “1”.

mjor	scale-tone 7th chord	$\Delta 7$	m7	m7	$\Delta 7$	7	m7	m7b5
	major scale tones	1357	2461	3572	4613	5724	6135	7246
	formula	1,3,5,7	1,b3,5,b7	1,b3,5,b7	1,3,5,7	1,3,5,b7	1,b3,5,b7	1,b3,b5,b7

F Major Scale Tone Seventh Chords

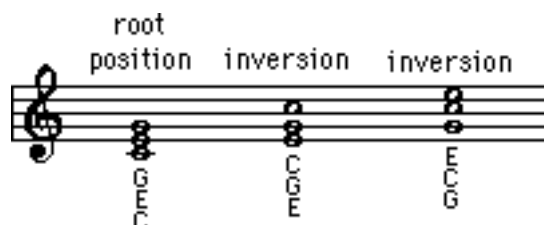
<p>E A D G E F Bb C F E A G C F Bb D G A D G C E A Bb F Bb E A D C F Bb G C D G C F A D E A D G E F Bb C F E A G C F Bb D G A D G C E A Bb F Bb E A D C F Bb G C D G C F A D E A D G E</p>		<p>note names | F Bb C F E A G C F Bb D G A D G C E A</p>	<p>finger numbers | 1 1 1 1 1 1 2 2 2 2 2 4 4 4 4 4</p>				
<p>F$\Delta 7$ I R 7 3 5 F C F E A 1 3 4 2</p>	<p>Gm7 III R 5 R b3 5 R G Bb D G D G 1 3 4 1 1 1</p>	<p>Am7 I 5 R b3 b7 C E A G 2 3 1 4</p>	<p>Bb$\Delta 7$ I R 5 7 3 Bb A F D 1 3 2 4</p>	<p>C7 I R 3 b7 R C E C Bb 3 2 4 1</p>	<p>Dm7 III R b3 b7 R F D D C 3 1 3 1</p>	<p>E dim II R b5 b7 b3 E Bb D G 1 2 2 2</p>	<p>F$\Delta 7$ I R 7 3 5 F C A 1 3 4 2</p>
<p>F$\Delta 7$ I R 7 3 5 F C E A 1 3 4 2</p>	<p>Gm7 III R 5 b7 b3 5 R G F Bb D G D 1 3 1 1 1 1</p>	<p>Am7 V R 5 b7 b3 5 R A G C E A E 1 3 1 1 1 1</p>	<p>Bb$\Delta 7$ VI R 7 3 5 Bb A D 1 3 4 2</p>	<p>C7 VIII R 5 b7 3 5 R C Bb G C E G 1 3 1 2 1 1</p>	<p>Dm7 X R 5 b7 b3 5 R D C F A D A 1 3 4 1 1 1</p>	<p>Em7b5 XI R b7 b3 b5 E D G Bb 2 3 4 1</p>	<p>F$\Delta 7$ XIII R 7 3 5 F C E A 1 3 4 2</p>

B. CHORD FORMULAS

Many chord types can be constructed on the major scale. To understand them, it is necessary to know chord formulas. *Chord formulas* compare a chord to a major scale on its chord root.

The *chord root* is the note after which a chord is named. “G” is the root of a G7 chord. “Eb” is the root of Ebm7b5 chord. “A” is the root of an A7#9 chord. The formula for an A7#9 chord is 1, 3, 5, b7, #9. An A major scale is A, B, C#, D, E, F#, G#. A7#9, therefore includes A, C#, E, G and B#.

When the lowest note in a chord is the root, the chord is in *root position*. Any arrangement of the chord notes which does not have the root as the lowest note is called an *inversion*.



A chord is played one note at a time, is called an *arpeggio*. The formula for the arpeggiated version of a chord is the same as that for the chord. Many of the pentatonic and sextatonic scales in this book are arpeggios, as well.

Inversions of a the chord may be used, where the note names remain the same, but some of the notes are raised or lowered an octave. Notes may also be repeated (the last chord in the first example below has two “G’s”).

G major triad example. The formula for a major triad is 1, 3, 5. G major triad = 1, 3, 5 of the G major scale. Notice that arpeggios can involve two notes on the same string. The chord fingering can’t involve two notes on the same string, so the “G” note was moved to the fifth string.

The diagram shows the G major scale, arpeggio, and chord with inversions on a guitar fretboard. The scale is G A B C D E F# G. The arpeggio is G B D. The chord is G B D. The inversions are G B D, G D B, and G D B. The notes are labeled with their fret numbers: G (5), B (7), D (9) for the first inversion; G (3), B (5), D (7) for the second inversion; and G (1), B (3), D (5) for the third inversion. The notes are also labeled with their string numbers: G (5), B (7), D (9) for the first inversion; G (3), B (5), D (7) for the second inversion; and G (1), B (3), D (5) for the third inversion.

Altered tones in a chord formula such as b3, b7, or #5, indicate the use of a raised (sharped) or lowered (flatted) tone of the major scale built on the chord root:

G minor triad example.

The diagram shows the G minor scale, arpeggio, and chord with inversions on a guitar fretboard. The scale is G A B C D E F G. The arpeggio is G Bb D. The chord is G Bb D. The inversions are G Bb D, G D Bb, and G D Bb. The notes are labeled with their fret numbers: G (5), Bb (7), D (9) for the first inversion; G (3), Bb (5), D (7) for the second inversion; and G (1), Bb (3), D (5) for the third inversion. The notes are also labeled with their string numbers: G (5), Bb (7), D (9) for the first inversion; G (3), Bb (5), D (7) for the second inversion; and G (1), Bb (3), D (5) for the third inversion.

G diminished triad example.

The diagram shows the G diminished scale, arpeggio, and chord with inversions on a guitar fretboard. The scale is G A B C D E F G. The arpeggio is G Bb Db. The chord is G Bb Db. The inversions are G Bb Db, G Db Bb, and G Db Bb. The notes are labeled with their fret numbers: G (5), Bb (7), Db (9) for the first inversion; G (3), Bb (5), Db (7) for the second inversion; and G (1), Bb (3), Db (5) for the third inversion. The notes are also labeled with their string numbers: G (5), Bb (7), Db (9) for the first inversion; G (3), Bb (5), Db (7) for the second inversion; and G (1), Bb (3), Db (5) for the third inversion.

Chord Formulas, Grouped By Family

Chord formulas compare a chord to a major scale built on its root. The chord root is the note after which the chord is named. “Bb” is the root of a Bb7b5 chord. Adjust the numbered tones of the major scale on its chord root with sharps (#) or flats (b) where necessary to produce the chord formula.

Triad Type	Quadrad Type	Chord Name	Formula										
			root	...	third	..	fifth	...	7th	2(=9)	4(=11)	6(=13)	
major		major	1		3		5						
	major seventh	Δ7 (major 7th)	1		3		5		7				
		Δ9 (major 9th)	1		3		5		7	2			
		Δ9#11 (major 9 sharp 11)	1		3		5		7	2	#4		
	dominant seventh	7 (dominant 7th)	1		3		5		b7				
		9 (dominant 9th)	1		3		5		b7	2			
		11 (dominant 11th)	1		3		5		b7	2	4		
		13 (dominant 13th)	1		3		5		b7	2	4	6	
		7b9 (7 flat 9)	1		3		5		b7	b2			
		7#9 (7 sharp 9)	1		3		5		b7	#2			
		7/6	1		3		5		b7			6	
		7/11	1		3		5		b7		4		
		7/#11	1		3		5		b7		#4		
		9#11	1		3		5		b7	2	#4		
		13#11	1		3		5		b7	2	#4	6	
	sixth	6	1		3		5					6	
		6/9	1		3		5			2		6	
	major add nine	/9 (major add 9)	1		3		5			2			
major b5		maj. b5 (major flat five)	1		3		b5						
	major 7b5	Δ7b5 (major 7 flat 5)	1		3		b5		7				
		Δ9b5 (major 9 flat 5)	1		3		b5		7	2			
	dominant 7b5	7b5 (7 flat 5)	1		3		b5		b7				
		9b5 (9 flat 5)	1		3		b5		b7	2			
		9b5 (9 sharp 5)	1		3		b5		b7	2			
		9b5#5	1		3		b5/#5		b7	2			
		7b5b9	1		3		b5		b7	b2			
		7b5#9	1		3		b5		b7	#2			
		7b5b9	1		3		b5		b7	b2			
		7b5#9	1		3		b5		b7	#2			
		7b5#5	1		3		b5/#5		b7				
		7b5#5b9	1		3		b5/#5		b7	b2			
		7b5#5#9	1		3		b5/#5		b7	#2			
		7b5#5b9#9	1		3		b5/#5		b7	b2/#2			
		13b9#9#11	1		3		5		b7	b2/#2	#4	6	
	augmented (maj.#5)		augmented (or “+”)	1		3		#5					
		major 7#5	Δ7#5 (major 7 sharp 5)	1		3		#5		7			
		Δ9#5 (major 9 sharp 5)	1		3		#5		7	2			
dominant 7#5		7#5 (7 sharp 5)	1		3		#5		b7				
		9#5 (9 sharp 5)	1		3		#5		b7	2			
		7#5b9	1		3		#5		b7	b2			
		7#5#9	1		3		#5		b7	#2			
		7#5b9	1		3		#5		b7	b2			
		7#5#9	1		3		#5		b7	#2			
minor		minor	1		b3		5						
	minor seventh	m7 (minor 7th)	1		b3		5		b7				
		m9 (minor 9th)	1		b3		5		b7	2			
		m11 (minor 11th)	1		b3		5		b7	2	4		
		m13 (minor 13th)	1		b3		5		b7	2	4	6	
		m7/6	1		b3		5		b7			6	
		m7/11	1		b3		5		b7		4		
	minor (major 7th)	m7 (minor major 7th)	1		b3		5		7				
		m9 (b7)	1		b3		5		7	2			
	minor sixth	m6 (minor 6th)	1		b3		5					6	
		m6/9	1		b3		5			2		6	
	minor add nine	m/9 (minor add 9)	1		b3		5			2			
diminished (min. b5)		diminished	1		b3		b5						
	minor 7b5	m7b5 (Ø, Ø7 or half diminished)	1		b3		b5		b7				
		m9b5 (minor 9 flat 5)	1		b3		b5		b7	2			
	minor (b7)b5	m7b5	1		b3		b5		7				
		m9(b7)b5	1		b3		b5		7	2			
	diminished seventh	°7 (diminished 7th)	1		b3		b5					6 (=bb7)	

suspended 4th	sus.4 (suspended 4)	1	4	5
dominant 7th suspended 4th ..	7 sus.4 (7 suspended 4)	1	4	5
9 sus. 4 .....	.....	1	4	5
suspended 2nd	suspended 2 (suspended 2)	1	2	5
dominant 7th suspended 2nd ..	7 sus.2 (7 suspended 2)	1	5	b7

C. ALL MAJOR SCALE TONE CHORDS

The chart below lists all the useful chords that can be constructed on each step of the major scale. The chord names in the left column (such as “triad” and “7th”) indicate a general type of chord. Within each chord type there may be many specific chords due to the differences in major or minor thirds (flatted third or natural third), major or minor sevenths (flatted seventh or natural seventh), and so on.

Major scale tones are numbered across the top of the chart. The specific chord that would occur on any particular major scale step using only tones of the major scale is listed below the number. The chord formula is listed below the scale tones.

	scale tones:	1	2	3	4	5	6	7
triad	name	major	minor	minor	major	major	minor	diminished
	scale tones	135	246	357	461	572	613	724
	formula	1,3,5	1,b3,5	1,b3,5	1,3,5	1,3,5	1,b3,5	1,b3,b5
7th chord	name	Δ7	m7	m7	Δ7	7	m7	m7b5
	scale tones	1357	2461	3572	4613	5724	6135	7246
	formula	1,3,5,7	1,b3,5, b7	1,b3,5,b7	1,3,5,7	1,3,5,b7	1,b3,5,b7	1,b3,b5,b7
9th chord	name	Δ9	m9	—	Δ9	9	m9	m9b5
	scale tones	13572	24613	—	46135	57246	61357	72461
	formula	1,3,5,7,9	1,b3,5,b7,9	—	1,3,5,7,9	1,3,5,b7,9	1,b3,5,b7,9	1,b3,b5b7,9
11th chord	name	—	m11	—	Δ9#11	11	m11	—
	scale tones	—	246135	—	461357	572461	613572	—
	formula	—	1,b3,5,b7,9,11	—	1,3,5,7,9,#11	1,3,5,	1,b3,5,b7,9,11	—
13th chord	name	—	m13	—	Δ13#11	13	—	—
	scale tones	—	2461357	—	4613572	5724613	—	—
	formula	—	1,b3,5, b7,9,11,13	—	1,3,5,7,9,#11,13	1,3,5,b7,9,11,13	—	—
6th chord	name	6	m6	—	6	6	—	—
	scale tones	1356	2467	—	4612	5723	—	—
	formula	1356	1,b3,5,6	—	1356	1356	—	—
add 9 chord	name	add9	m add9	—	add9	add9	m add9	—
	scale tones	1235	2346	—	4561	5672	6713	—
	formula	1235	1,2,b3,5	—	1235	1235	1,2,b3,5	—
6/9 chord	name	6/9	m6/9	—	6/9	6/9	—	—
	scale tones	12356	23467	—	45612	56723	—	—
	formula	12356	1,2,b3,5	—	12356	12356	—	—
sus. 4 chord	name	sus.4	sus.4	sus.4	—	sus.4	sus.4	—
	scale tones	145	256	367	—	512	623	—
	formula	145	145	145	—	145	145	—
sus. 2 chord	name	sus.2	sus.2	—	sus.2	sus.4	sus.4	—
	scale tones	125	236	—	451	562	673	—
	formula	125	125	—	125	125	125	—
7 sus. 4 chord	name	Δ7sus4	7sus4	7sus4	—	7sus.4	7sus.4	—
	scale tones	1457	2561	3672	—	5124	6235	—
	formula	14575	1,4,5,b7	1,4,5,b7	—	1,4,5,b7	1,4,5,b7	—
7/11	name	—	m7/11	m7/11	Δ7/#11	7/11	m7/11	m7/11b5
	scale tones	—	2561	3672	—	5124	6235	72346
	formula	—	1,b3,4,5,b7	1,b3,4,5,b7	—	1,4,5,b7	1,b3,4,5,b7	1,b3,4,b5,b7
SUMMARY	name	Δ7	m7	m7	Δ7	7	m7	m7b5
	remaining tones	2,4,6	246	b2,4,b6	2,#4,6	246	2,4,b6	b2,4,b6
	mode formula	1234567	12b3456b7	1b2b345b6b7	123#4567	123456b7	12b345b6b7	1b2b34b5b6b7

D. SCALE TONE CHORDS OF OTHER SCALES

Mode Formulas

Any step of a seven tone scale can be used as a tone center, creating another scale. To determine the formula for the new scale, compare it to a major scale with the same tone center. All possible scale tone chords of a particular scale can be conceived with the knowledge of the mode and chord formulas.

Triads, Seventh Chords And The “Summary Chord”

The *summary chord*: to memorize each mode formula, recall the seventh chord formula for the scale step on which the mode occurs and the remaining notes (usually 2, 4, and 6) in the mode formula for that scale step.

major scale

scale tones:	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>
TRIAD	major	minor	minor	major	major	minor	diminished
scale tones	135	246	357	461	572	613	724
formula	1,3,5	1,b3,5	1,b3,5	1,3,5	1,3,5	1,b3,5	1,b3,b5
7TH CHORD	$\Delta 7$	m7	m7	$\Delta 7$	7	m7	m7b5
scale tones	1357	2461	3572	4613	5724	6135	7246
formula	1,3,5,7	1,b3,5,b7	1,b3,5,b7	1,3,5,7	1,3,5,b7	1,b3,5,b7	1,b3,b5,b7
SUMMARY CHORD	$\Delta 7/2, 4, 6$	m7/2, 4, 6	m7/b2, 4, b6	$\Delta 7/2, \#4, 6$	7/2, 4, 6	m7/2, 4, b6	m7b5/b2, 4, b6
mode formula	1234567	12b3456b7	1b2b345b6b7	123#4567	123456b7	12b345b6b7	1b2b34b5b6b7
mode name	major	Dorian	Phrygian	Lydian	Mixolydian	Aeolian	Locrian

harmonic minor scale

scale tones:	<u>1</u>	<u>2</u>	<u>b3</u>	<u>4</u>	<u>5</u>	<u>b6</u>	<u>7</u>
TRIAD	minor	diminished	augmented	minor	major	major	diminished
scale tones	1,b3,5	24b6	b3,5,7	4b61	572	b6,1,b3	724
formula	1,b3,5	1,b3,b5	1,3,#5	1,b3,5	1,3,5	1,3,5	1,b3,b5
7TH CHORD	m(ma7)	m7b5	$\Delta 7\#5$	m7	7	$\Delta 7$	dim. 7
scale tones	1b357	24b61	b3572	4b61b3	5724	b61b35	724b6
formula	1,b3,5,7	1,b3,b5,b7	1,3,#5,7	1,3,5,b7	1,3,5,b7	1,3,5,7	1,b3,b5,6
SUMMARY CHORD	m(ma7)/2,4,b6	m7b5/b2, 4, 6	$\Delta 7\#5/2, 4, 6$	m7/2, #4, 6	7/b2, 4, b6	$\Delta 7/\#2, \#4, 6$	6b5#5/b2#2
mode formula	12b34567	1b2b34b56b7	1234#567	12b3#456b7	1b2345b6b7	1#23#4567	1b2#23b5#56
comparison to major mode	Aeolian $\flat 7$	Locrian $\flat 6$	major #5	Dorian #4	Phrygian $\flat 3$	Lydian #2	Mixolydian #1

melodic minor scale

scale tones:	<u>1</u>	<u>2</u>	<u>b3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>
TRIAD	minor	minor	augmented	major	major	diminished	major b5
scale tones	1,b3,5	246	b3,5,7	461	572	6,1,b3	724
formula	1,b3,5	1,b3,5	1,3,#5	1,3,5	1,3,5	1,b3,b5	1,3,b5
7TH CHORD	m(ma7)	m7	$\Delta 7\#5$	7	7	m7b5	7b5
scale tones	1b357	2461	b3572	461b3	5724	61b35	7246
formula	1,b3,5,7	1,b3,5,b7	1,3,#5,7	1,3,5,b7	1,3,5,b7	1,b3,b5,b7	1,3,b5,b7
SUMMARY CHORD	m(ma7)/2, 4, 6	m7/b2, 4, 6	$\Delta 7\#5/2, \#4, 6$	7/2, #4, 6	7/2, 4, b6	m7b5/2, 4, b6	7b5#5/b2, #2
mode formula	12b34567	1b2b3456b7	123#4#567	123#456b7	12345b6b7	12b34b5b6b7	1b2b3b4b5b6b7
comparison to major mode	major b3 or Dorian $\flat 7$	Dorian b2 or Phrygian $\flat 6$	Phrygian b1 or Lydian #5	Lydian b7 or Mixolydian #4	Mixolydian b6 or Aeolian $\flat 3$	Aeolian b5 or Locrian $\flat 2$	Locrian b4 or major #1

harmonic major scale

scale tones:	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>b6</u>	<u>7</u>
TRIAD	major	diminished	major	minor	major	augmented	diminished
scale tones	1,3,5	24b6	3,5,7	4b61	572	b6,1,3	724
formula	1,3,5	1,b3,b5	1,3,5	1,b3,5	1,3,5	1,3,#5	1,b3,b5
7TH CHORD	$\Delta 7$	m7b5	7	m(ma7)	7	$\Delta 7\#5$	dim. 7
scale tones	1357	24b61	3572	4b613	5724	b6135	724b6
formula	1,3,5,7	1,b3,b5,b7	1,3,5,b7	1,b3,5,7	1,3,5,b7	1,3,#5,7	1,b3,b5,6
SUMMARY CHORD	$\Delta 7/2, 4, b6$	m7b5/2, 4, 6	7/b2, #2, b6	m(ma7)/2, #4, 6	7/b2, 4, 6	$\Delta 7\#5/\#2, \#4, 6$	dim. 7/b2, 4, b6
mode formula	12345b67	12b34b56b7	1b2#235b6b7	12b3#4567	1b23456b7	1#23#4#567	1b2b34b5#56
comparison to major mode	major b6	Dorian b5	Phrygian b4	Lydian b3	Mixolydian b2	Aeolian b1	Locrian bb7

CHAPTER 4: CHOOSING SCALES IN IMPROVISING

A. THE BASIC PREMISE

Any scale which contains all of the notes in the chord will harmonize with the chord. Where there is more than one choice for the scale, the following factors should be considered:

- It is usually preferable to change fewer accidentals (sharps and flats) if you need to change from one scale to another to accommodate the chord progression.
- Where there is no change of accidental, you are using modes of the same scale, such as G major and A Dorian (A Dorian uses the notes of G major, with the tone center on “A”).
- Are your choices of scales appropriate for the style? You often will compromise and choose scales which change more accidentals than necessary to allow scales that will sound right within the style.

While a particular chord is being played, the most emphasized notes in the melody are usually the chord tones. The emphasis can be produced through any of the following:

- sustain
- repetition
- tonal tension release (dissonance resolving in consonance)
- being the root of the main chord
- dynamic accent (playing the note louder than others)
- playing the note on the first beat of a measure or with chord accents in the accompaniment
- a mechanical device (such as a wah-wah) used to attract the listener’s attention to a particular scale tone

Melodically emphasize the most important notes of the chords. With the same logic and with similar purpose as voicing chords for an accompaniment part, certain essential chord tones define the color and movement of the chord for the listener. The essential chord tones are:

- *The third and the seventh, if involved.* Suspended 4th and suspended 2nd chords have no third. 11th chords usually are played without their third if the third is major. Dominant 13th chords (abbreviated “13th”) usually are played without the 11th. Triads, 6ths, add9’s and 6/9’s have no seventh.
- *Any tones mentioned in the quality name of the chord* (all but the letter name of the chord).
- *All tones of a diminished triad, m7b5, and augmented* should be included whenever possible. In many cases, any tone of a diminished seventh chord may be omitted.

B. DEFINING THE TONIC CHORD

The tonic chord is the chord which you expect the progression to end on. The progression should sound resolved on the tonic chord. The chord progression may end with a deceptive cadence where the ending chord would not be the tonic chord, but it will generally end on the tonic chord. Determine by ear which is the tonic chord in the progression.

Once you’ve determined which is the tonic chord, use the *Chord Formulas, Grouped By Family* chart in Chapter 2, Section B to determine its quality.

- First determine the triad: is it major, minor, diminished, augmented or suspended.
- Then determine the quadrad (four-note chord).
- Once you determine the type of quadrad, are there more notes in the chord, like a ninth?

During the course of the chord progression, the key or scale type may temporarily change. The key changes when the tone center changes to a different note. The tone center may remain the same with a change of scale, which would imply different scale tone chords. You should isolate each section of the chord progression that is in a different key or different scale type and determine the scale for it.

C. DETERMINING THE SCALE.

Scale-tone chords are constructed from a single seven-tone scale. The scale which constructed the chords will harmonize perfectly with the chords. Most chord progressions are made up with major scale tone chords, so you should memorize the major scale-tone triads and seventh chords at the beginning of the chart in Chapter 3, Section D.

Modes. Any note of a seven-tone scale can be the tone center. If, for example, you play a seven-tone scale from scale tone “5” to “5”, you will create a new scale. Any note in a seven-tone scale can become a tone center by emphasizing it and forming the chord progression so desired tone center is the root of the chord you expect (by listening) the progression to end on.

The only four scales (and their modes) that are practical in constructing chord progressions are major, harmonic minor, melodic minor and harmonic major. To conceive all possible scale tone chords on these four scales, memorize their mode formulas. The formulas for all modes of the four useful scales are shown on the “Seventh Chords Grouped By Scale” chart in Section E of this chapter.

Summary chords discussed in Chapter 3, Section D are a useful device in memorizing the mode formulas. The summary chord is the scale tone seventh chord and the remaining “2”, “4” and “6” available on each scale step:

D. USING A SCALE THAT CONTRASTS THE CHORDS

Consonance is a simultaneous playing of two or more notes which produce a feeling of resolve, repose or calmness. A consonant chord is satisfying in itself, not requiring more chords to sound resolved.

Dissonance is a simultaneous playing of two or more notes which produce a feeling of unrest, irresolution or disturbance. A dissonant chord anticipates movement to a consonant chord.

Scale types often need to change during the course of a chord progression. Change the notes that are necessary to accommodate the melody and chords. When appropriate, change additional notes to form a scale familiar to the listener. Additional changes in the scale should not cause dissonance with the harmonic structure (notes in the chords, melody and accompaniment) unless you wish to suggest a different chord progression melodically.

As a rhythm guitarist, you can play *substitute chord progressions* which still move to the main chords, but in a different way. Or, you can replace one chord with a substitute chord progression that generally has the same sound as the original chord.

When you think of a substitute chord progression and play it melodically, it could be called a *superimposing chord progression*, since the original chords are still being played by the other band members. Superimposing chord progressions is fundamental to jazz melody and the concept is working its way more and more into popular music forms like Blues, Rock and Country.

In Blues-related styles, Dorian scale is commonly used over a 7th chord (dominant seventh) instead of the Mixolydian “plain” dominant seventh chord sound.. The Dorian scale suggests a m7 chord, which is the

same as a 7#9 no3 chord, and works well to express a darker mood in blues-related styles. See Dorian in the “m7” row of the Chord/Scale Charts in Section D.

In another example, the chord progression involves D6 and A7. The chords suggest the D major scale, which contains all the notes of both chords. However, the D major scale may suggest too bright or happy a mood for the song. By superimposing a D7 chord sound with D Mixolydian scale over the D6th chord, the mood can be effectively darkened. Or, if you wanted a more exotic, jazzy sound, you may want to superimpose a DΔ13#11 sound over the D6 chord, by using D Lydian.

Substituting or superimposing chord progressions from scales that add flats or remove sharps (change sharp notes to natural versions) darken the mood. Chord progressions from scales that remove flats (change flat notes to natural versions) or add sharps usually brighten the mood.

E. THE CHORD/SCALE CHARTS

The chart appears on the following two pages.

Numbers above “7” in chord and scale formulas can be converted to scale formula numbers by subtracting the number “7.” A “9” in a chord is a “2” in a scale. Also, sus. 4 chords, use “4” in their formulas, in place of “11,” and sus. 2 chords, use “2” in their formulas, in place of “9.”

Triads are shown at the top of the chart. If you want a scale for a triad, determine the type of seventh you want in the scale, and look up the seventh chord referred to in the “scale” column. For example, if you want a scale for a suspended fourth triad (sus. 4), use the scales shown for Δ7, 7 or m7 where the scale contains a “4.” If you then looked under “7” chord, one of the scales is Mixolydian, which contains the “1”, “4” and “5” tones necessary for the suspended 4 chord.

Seventh chords are shown immediately after triads. If you want additional tones added to the seventh chord sound, look in the “add tone” column.

Ninth chords are constructed by adding a ninth to a seventh chord. For a minor 9th chord, look up “m7”, then find the scales which have a “9”, which are Dorian, Aeolian or Dorian #4, so the minor seventh chord has an added ninth.

Suspended seventh chords are constructed by replacing the third (“b3” or “3”) with the “4” in a Δ7, 7, or m7 chord. 7sus. 4 chords would use the scales shown for 7th chords which have an “11” available as an add tone (remember: an “11” in a sus. 4 chord is called a “4”).

Optional chord names are shown for m7 and m7b5, where their chord sound is used as a bluesy effect to replace 7#9 or 7b5#9 (see the 7th chord chart). *Optional versions of the fifth* are shown for Δ7 and 7 chords, where a #4 can represent a b5 or a b6 can represent a #5.

Is it a chord or a scale? You may construct some chords which are only useful as arpeggios. Some chords, such as Δ7/11, are too dissonant to be used as a chord in an accompaniment part. However, they are always usable as an arpeggio. Arpeggiated chords, especially those with five or more notes may be thought of as a scale.

CHORD / SCALE CHARTS

<u>triad Type</u>	<u>chord formula</u>	<u>scale</u>
major	1 3 5	use same as for Δ7 or ♭7
minor	1 b3 5	use same as for m7 or m7
suspended 4th	1 4 5	use same as for Δ7, 7 or m7, where the scale contains a “4.”
suspended 2nd	1 2 5	use same as for Δ7, 7 or m7, where the scale contains a “2.”
diminished	1 b3 b5	use same as for m7b5 or o7
augmented	1 3 #5	use same as for 7#5 or Δ7#5

Seventh Chords Grouped by Chord Type

<u>7th chord type</u>	<u>7th formula</u>	<u>add tones</u>	<u>scale</u>	<u>har. min.</u>	<u>mel. min.</u>	<u>har. maj.</u>	<u>scale formula</u>
Δ7 (major 7th)	1 3 5 7 ...	Δ9 ... 4 13	major	1	2	3	4 5 6 7
	(opt.b5no11) Δ9 ...	#11 .. 13	Lydian	1	2	3	#4 5 6 7
	(opt.#5no6) Δ9 ...	4 #5b6 ..	Major b6	I	1	2	3 4 5 b6 7
	(opt.b5no11) #2 ...	#11 .. 13	Lydian #2	bVI	1	#2	3 #4 5 6 7
	(opt.b5no11) #2 ...	#11	augmented scale	1	#2	3	#4 5 6 7
Δ7b5 (optional #5) ...	1 3 b5 7 ...	9 #5 13	Lydian #5	bIII	1	2	3 #4 #5 6 7
		#2 #5 13	Aeolian b1	bVI	1	#2	3 #4 #5 6 7
Δ7#5	1 3 #5 7 ...	9 4 13	major #5	bIII	1	2	3 4 #5 6 7
7	1 3 5 b7 ..	9 11 13	Mixolydian	1	2	3	4 5 6 b7
	(opt.b5no11) 9	..... #11 .. 13	Mixolydian #4	IV	1	2	3 #4 5 6 b7
	(opt.#5no6) 9	..... 11 #5b6 ..	Mixolydian b6	V	1	2	3 4 5 b6 b7
		b9 11 13	Mixolydian b2	V	1	b2	3 4 5 6 b7
	(opt.b5no11) b9#9	#11 .. 13	dimin. half/whole	1	b2#2	3	#4 5 6 b7
	(opt.#5no6) b9	..... 11 #5b6 ..	Phrygian ♭3	V	1	b2	3 4 5 b6 b7
	(opt.#5no6) b9#9	n11 .. #5b6 ..	Phrygian b4	III	1	b2	b3 b4 5 b6 b7
7b5	1 3 b5 b7 ..	9 #5	whole tone scale	1	2	3	#4 #5 6 b7
7#5 (opt. b5 no11) ...	1 3 #5 b7 ..	9 #4	whole tone scale	1	2	3	#4 #5 6 b7
7b5#5	1 3 b5#5 b7	b9#9	Locrian b4	VII	1	b2	b3 b4 b5 b6 b7
m7 (or 7#9no3)	1 b3 5 b7 ..	9 11 13	Dorian	1	2	b3	4 5 6 b7
		9 11 b6	Aeolian	1	2	b3	4 5 6 b7
	(opt.b5no11) 9	..... #4 13	Dorian #4	IV	1	2	b3 #4 5 6 b7
		b2 11 b6	Phrygian	1	b2	b3	4 5 6 b7
		b2 11 13	Dorian b2	II	1	b2	b3 4 5 6 b7
m(♯7)	1 b3 5 7 ...	9 4 b6	Aeolian ♯7	I	1	2	b3 4 5 b6 7
		9 4 6	major b3	I	1	2	b3 4 5 6 7
		9 #4 6	Lydian b3	IV	1	2	b3 #4 5 6 7
m7b5 (7b5#9n3) ...	1 b3 b5 b7	b2 4 b6	Locrian	1	b2	b3	4 b5 b6 b7
		9 4 6	Dorian b5	II	1	2	b3 4 b5 6 b7
		b2 4 6	Locrian ♯6	II	1	b2	b3 4 b5 6 b7
		b2 4 b6	Aeolian b5	VI	1	b2	b3 4 b5 b6 b7
o7	1 b3 b5 6 ...	2 4/#5 . 7	dimin. whole/half	1	2	b3	4 b5, #5 6 7
		b2 4 b7	Locrian #6	II	1	b2	b3 4 b5 6 b7
		3 5 b7	Dorian #4	IV	1	2	b3 #4 5 6 b7
		3 5 7	Lydian #2	bVI	1	#2	3 #4 5 6 7
		b2 b4 b6	Mixolydian #1	VII	1	b2	b3 b4 b5 b6 bb7
		2 4 b7	Dorian b5	II	1	2	b3 4 b5 6 b7
		2 5 7	Lydian b3	IV	1	2	b3 #4 5 6 7
		3 #5 7	Aeolian b1	bVI	1	#2	3 #4 #5 6 7
		b2 4 b6	Locrian bb7	VII	1	b2	b3 4 b5 b6 bb7

Seventh Chords Grouped by Scale

7th chord type	7th formula	add tones	scale	har. min.	mel. min.	har. maj.	scale formula
Δ7 (major 7th)	1 3 5 7	Δ9 ... 4	13	major			1 2 3 4 5 6 7
m7 (or 7#9 no3)	1 b3 5 b7	9	11 13	Dorian			1 2 b3 4 5 6 b7
m7 (or 7#9 no3)	1 b3 5 b7	b2	11 b6	Phrygian			1 b2 b3 4 5 b6 b7
Δ7 (major 7th)	1 3 5 7	Δ9 ... #11	13	Lydian			1 2 3 #4 5 6 7
7	1 3 5 b7	9	11 13	Mixolydian			1 2 3 4 5 6 b7
m7 (or 7#9 no3)	1 b3 5 b7	9	11 b6	Aeolian			1 2 b3 4 5 b6 b7
m7b5 (7b5#9 no3)	1 b3 b5 b7	b2	4 b6	Locrian			1 b2 b3 4 b5 b6 b7
m(Δ7)	1 b3 5 7	9	4 b6	Aeolian Δ7	I		1 2 b3 4 5 b6 7
m7b5 (7b5#9 no3)	1 b3 b5 b7	b2	4 6	Locrian b6	II		1 b2 b3 4 b5 6 b7
Δ7#5	1 3 #5 7	9	4 13	major #5	bIII		1 2 3 4 #5 6 7
m7 (or 7#9 no3)	1 b3 5 b7	9	#4 13	Dorian #4	IV		1 2 b3 #4 5 6 b7
7 (opt.#5 no6)	1 3 5 b7	b9	11 #5b6	Phrygian b3	V		1 b2 3 4 5 b6 b7
Δ7 (major 7th)	1 3 5 7	#2	#11 13	Lydian #2	bVI		1 #2 3 #4 5 6 7
o7	1 b3 b5 6	b2	b4 b6	Mixolydian #1	VII		1 b2 b3 b4 b5 b6 bb7
m(Δ7)	1 b3 5 7	9	4 6	major b3	I		1 2 b3 4 5 6 7
m7 (or 7#9 no3)	1 b3 5 b7	b2	11 13	Dorian b2	II		1 b2 b3 4 5 6 b7
Δ7b5 (optional #5)	1 3 b5 7	9	#5 13	Lydian #5	bIII		1 2 3 #4 #5 6 7
7 (opt.b5 no11)	1 3 5 b7	9	#11 13	Mixolydian #4	IV		1 2 3 #4 5 6 b7
7 (opt.#5 no6)	1 3 5 b7	9	11 #5b6	Mixolydian b6	V		1 2 3 4 5 b6 b7
m7b5 (7b5#9 no3)	1 b3 b5 b7	b2	4 b6	Aeolian b5	VI		1 b2 b3 4 b5 b6 b7
7b5#5	1 3 b5#5 b7	b9#9		Locrian b4	VII		1 b2 b3 b4 b5 b6 b7
Δ7 (major 7th)	1 3 5 7	Δ9	4 b6	Major b6	I		1 2 3 4 5 b6 7
m7b5 (7b5#9 no3)	1 b3 b5 b7	9	4 6	Dorian b5	II		1 2 b3 4 b5 6 b7
7 (opt.#5 no6)	1 3 5 b7	b9#9	n11 #5b6	Phrygian b4	III		1 b2 b3 b4 5 b6 b7
m(Δ7)	1 b3 5 7	9	#4 6	Lydian b3	IV		1 2 b3 #4 5 6 7
7	1 3 5 b7	b9	11 13	Mixolydian b2	V		1 b2 3 4 5 6 b7
Δ7b5 (optional #5)	1 3 b5 7	#2	#5 13	Aeolian b1	bVI		1 #2 3 #4 #5 6 7
o7	1 b3 b5 6	b2	4 b6	Locrian bb7	VII		1 b2 b3 4 b5 b6 bb7
7b5	1 3 b5 b7	9	#5	whole tone scale			1 2 3 #4 #5 6 7
7#5 (opt. b5 no11)	1 3 #5 b7	9	#4	whole tone scale			1 2 3 #4 #5 6 7
7 (opt.b5 no11)	1 3 5 b7	b9#9	#11 13	dimin. half/whole			1 b2#2 3 #4 5 6 b7
o7	1 b3 b5 6	2	4/#5 7	dimin. whole/half			1 2 b3 4 b5,#5 6 7

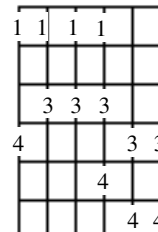
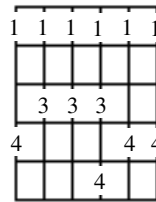
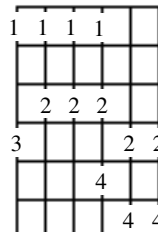
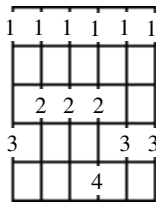
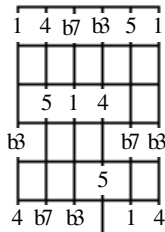
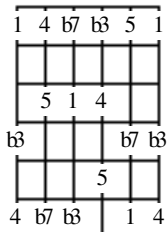
Triads With Add 6 and Add 9, Grouped By Chord Type

chord type	formula	add tones	scale	har. min.	mel. min.	har. maj.	scale formula
6	1 3 5 6	9	4 7	major			1 2 3 4 5 6 7
			#4 7	Lydian			1 2 3 #4 5 6 7
		#2	#4 7	Lydian #2	bVI		1 #2 3 #4 5 6 7
		9	4 b7	Mixolydian			1 2 3 4 5 6 b7
		9	#4 b7	Mixolydian #4	IV		1 2 3 #4 5 6 b7
		b9	4 b7	Mixolydian b2	V		1 b2 3 4 5 6 b7
m6	1 b3 5 6	9	4 b7	Dorian			1 2 b3 4 5 6 b7
		2	#4 b7	Dorian #4	IV		1 2 b3 #4 5 6 b7
		b2	4 b7	Dorian b2	II		1 b2 b3 4 5 6 b7
		2	4 7	major b3	I		1 2 b3 4 5 6 7
		2	#4 7	Lydian b3	IV		1 2 b3 #4 5 6 7
/9 (add 9)	1 3 5 9	4	6 7	major			1 2 3 4 5 6 7
		#4	6 7	Lydian			1 2 3 #4 5 6 7
		4	b6 7	major b6	I		1 2 3 4 5 b6 7
		4	6 b7	Mixolydian			1 2 3 4 5 6 b7
		#4	6 b7	Mixolydian #4	IV		1 2 3 #4 5 6 b7
		4	b6 b7	Mixolydian b6	V		1 2 3 4 5 b6 b7
m/9 (minor add 9)	1 b3 5 9	4	6 b7	Dorian			1 2 b3 4 5 6 b7
		4	b6 b7	Aeolian			1 2 b3 4 5 b6 b7
		#4	6 b7	Dorian #4	IV		1 2 b3 #4 5 6 b7
		4	b6 7	Aeolian Δ7	I		1 2 b3 4 5 b6 7
		4	6 7	major b3	I		1 2 b3 4 5 6 7
		#4	6 7	Lydian b3	IV		1 2 b3 #4 5 6 7

minor 7/11 pentatonic scale

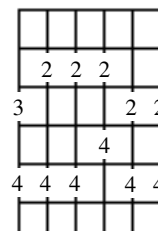
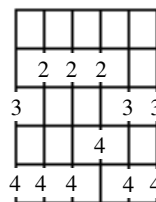
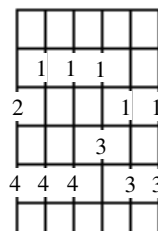
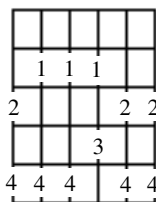
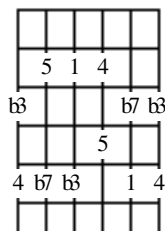
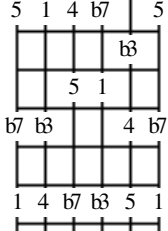
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1



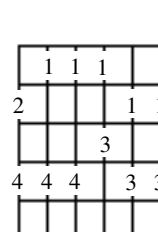
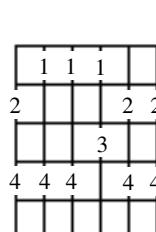
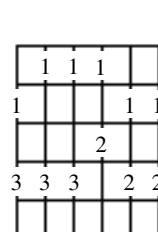
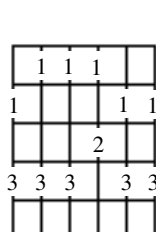
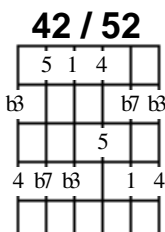
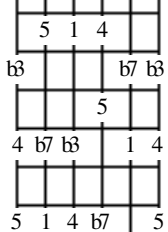
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b2



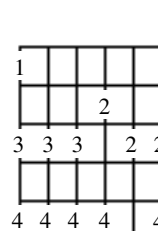
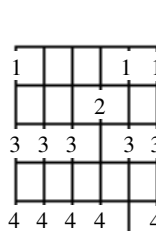
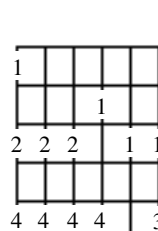
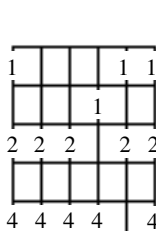
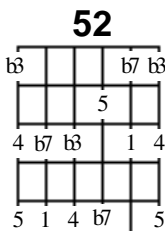
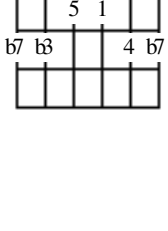
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2



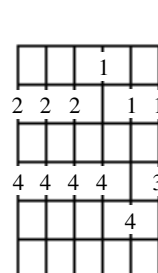
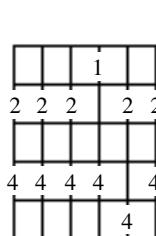
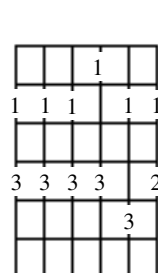
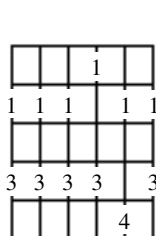
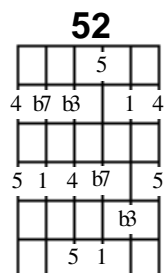
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b3



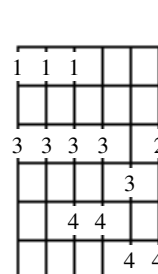
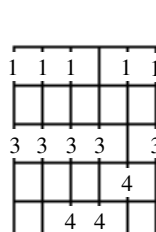
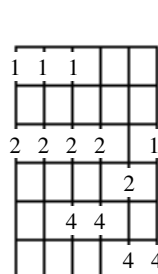
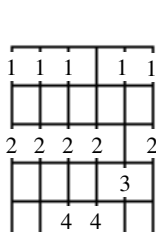
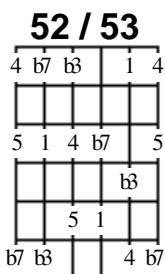
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3



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4

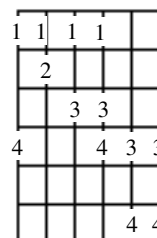
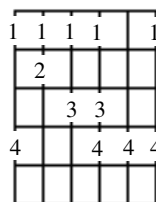
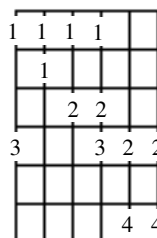
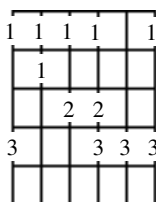
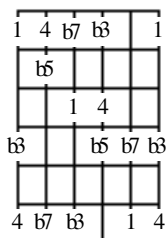
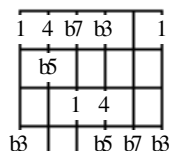


<p>1 4 b7 b3 5 1</p> <p>5 1 4</p> <p>b3 b7 b3</p> <p>5</p> <p>4 b7 b3 1 4</p> <p>5 1 4 b7 5</p> <p>b3</p> <p>5 1</p> <p>b7 b3 4 b7</p> <p>1 4 b7 b3 5 1</p> <p>5 1 4</p> <p>b3 b7 b3</p> <p>5</p> <p>4 b7 b3 1 4</p> <p>5 1 4 b7 5</p> <p>b3</p> <p>5 1</p> <p>b7 b3 4 b7</p>	<p>53</p> <p>b5</p> <p>5 1 4 b7 5</p> <p>b3</p> <p>5 1</p> <p>b7 b3 4 b7</p>	<p>1 1 1 1 1</p> <p>2</p> <p>3 3</p> <p>4 4 4 4</p>	<p>1 1 1 1 1</p> <p>1</p> <p>3 3</p> <p>4 4 3 3</p>	<p>2 2 2 2 2</p> <p>3</p> <p>4 4</p> <p>4 4 4 4</p>	<p>2 2 2 2 1</p> <p>2</p> <p>4 4</p> <p>4 4 4 4</p>
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	<p>631</p> <p>b6</p> <p>b3</p> <p>5 1</p> <p>b7 b3 4 b7</p> <p>1 4 b7 b3 5 1</p>	<p>1</p> <p>1 1</p> <p>2 2 2 2</p> <p>4 4 4 4 4 4</p>	<p>1 1</p> <p>1 1</p> <p>2 2 1 1</p> <p>4 4 4 4 3 3</p>	<p>1</p> <p>2 2</p> <p>3 3 3 3</p> <p>4 4 4 4 4 4</p>	<p>1</p> <p>2 2</p> <p>3 3 2 2</p> <p>4 4 4 4 4 4</p>
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minor 7/11b5 pentatonic scale

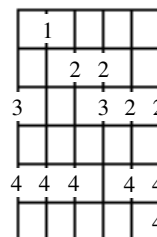
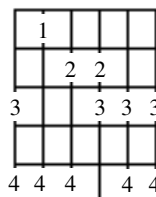
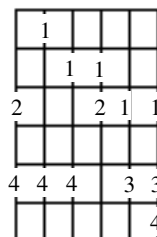
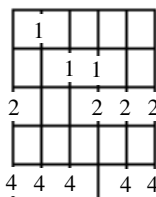
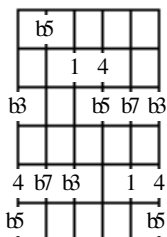
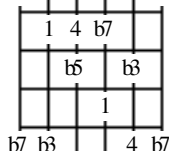
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1



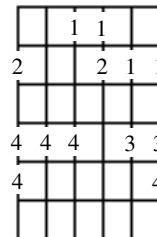
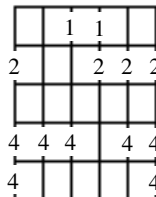
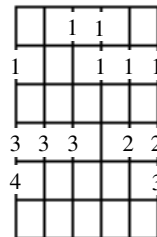
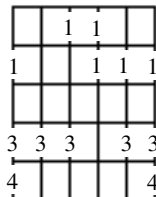
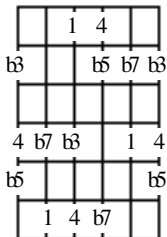
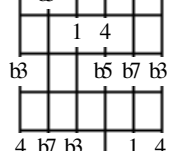
42

b2



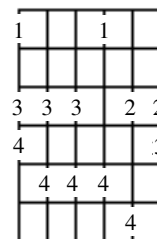
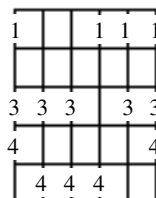
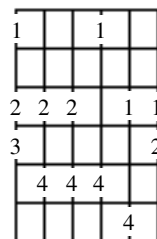
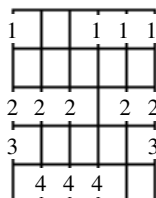
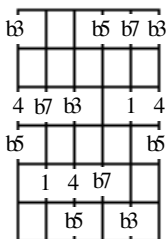
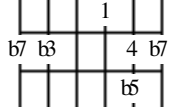
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2



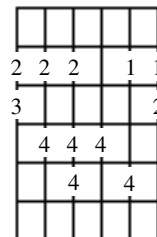
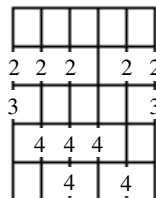
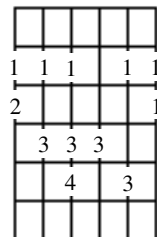
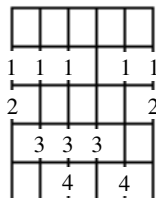
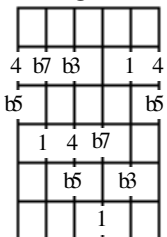
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b3



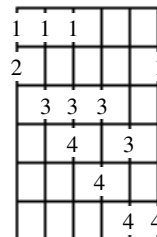
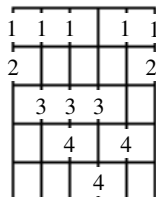
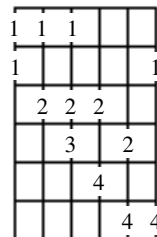
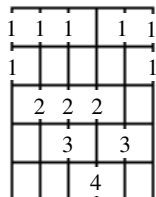
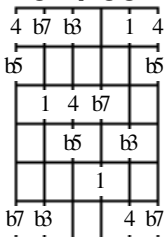
52

3



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4



53

b5

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5

631

b6

631

6

641

b7

641

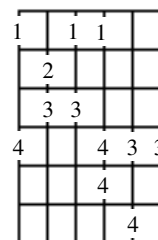
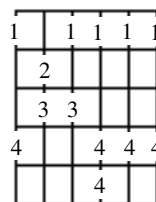
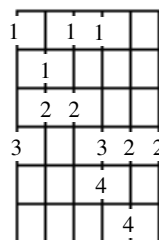
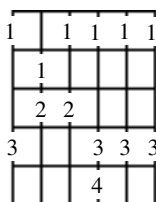
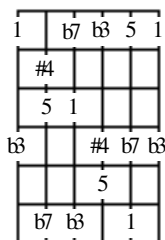
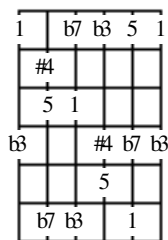
7

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minor 7/#11 pentatonic scale

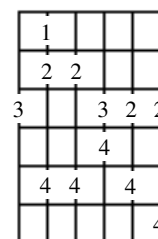
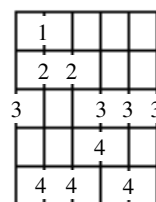
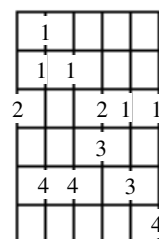
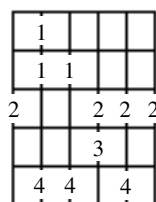
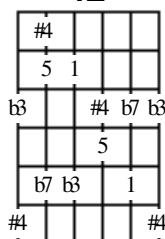
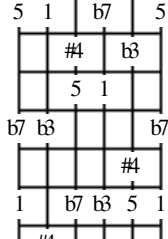
641 / 42

1



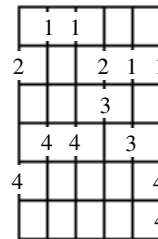
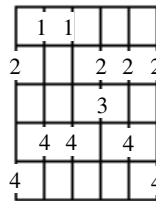
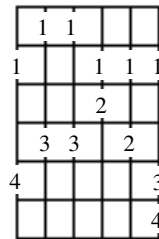
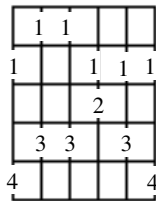
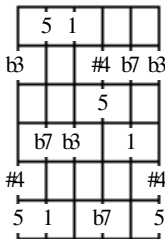
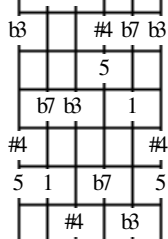
42

b2



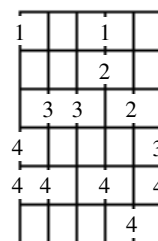
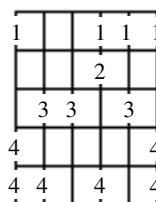
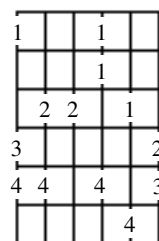
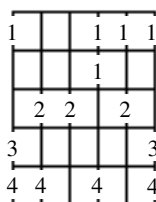
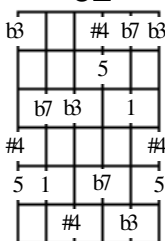
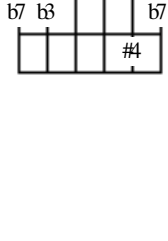
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2



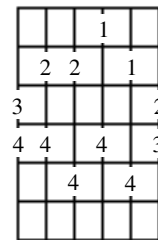
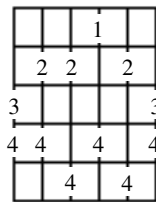
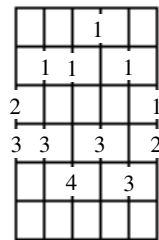
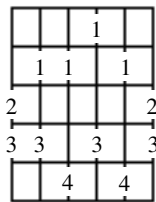
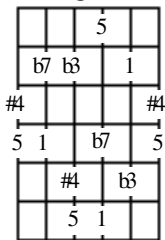
52

b3



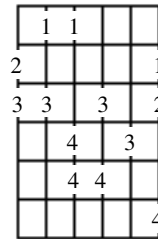
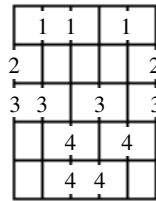
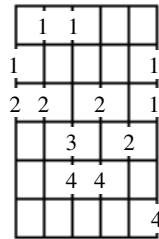
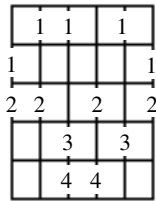
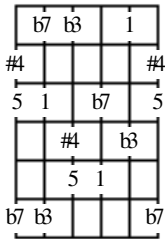
52

3



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4



b5

53

1		b7	b3	5	1
	#4				
	5	1			
b3			#4	b7	b3
			5		
	b7	b3		1	
#4					#4
5	1		b7		5

5

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5	1		b7		5
	#4		b3		
	5	1			
b7	b3			b7	
			#4		
1		b7	b3	5	1
	#4				
	5	1			
b3			#4	b7	b3
			5		
	b7	b3		1	
#4					#4
5	1		b7		5

b6

631

	#4		b3		
	5	1			
b7	b3			b7	
			#4		
1		b7	b3	5	1
	#4				
	5	1			
b7	b3			b7	

6

631

	5	1			
b7	b3			b7	
			#4		
1		b7	b3	5	1
	#4				
	5	1			

b7

641

b7	b3			b7	
			#4		
1		b7	b3	5	1
	#4				
	5	1			
b3		#4	b7	b3	

7

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			#4		
1		b7	b3	5	1
	#4				
	5	1			
b3		#4	b7	b3	
			5		

1				1
1	1	1	1	1
	2		2	
	3	3		
4	4			4

1				
1	1	1	1	1
	2		1	
	3	3		
4	4			3

1				
1	1	1	1	
	2			
	3	3		
4	4			4

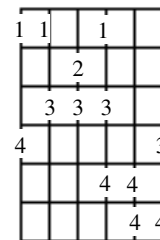
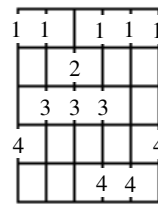
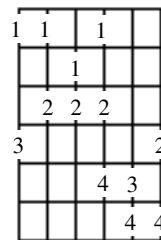
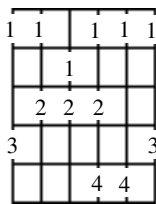
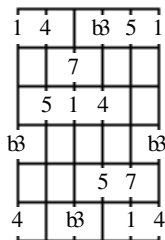
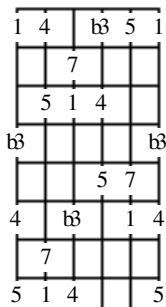
1				1
2	2	2	2	2
	3		3	
	4	4		
4	4			4

1				
2	2		2	1
	3		2	
	4	4		
4	4			4

minor natural 7/11 pentatonic scale

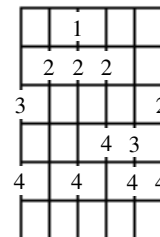
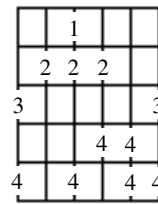
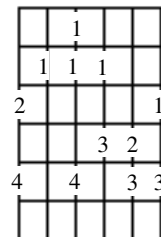
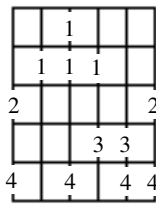
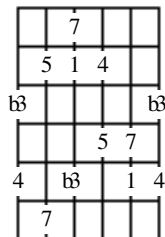
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1



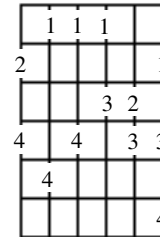
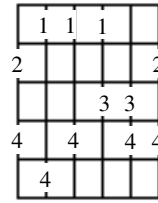
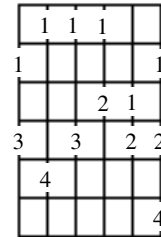
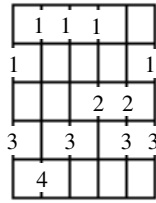
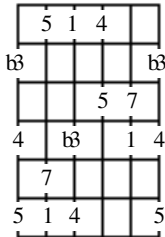
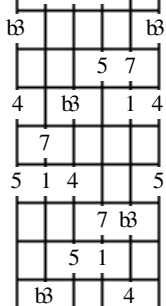
42

b2



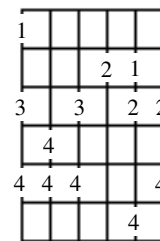
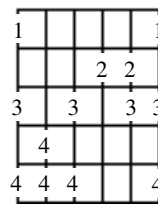
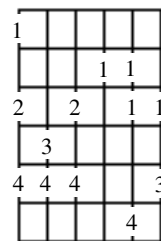
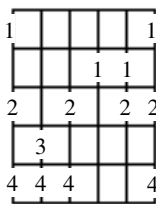
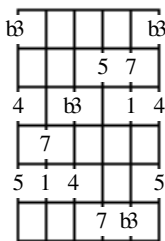
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2



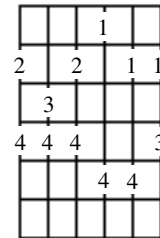
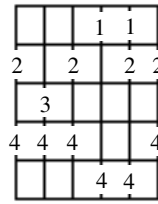
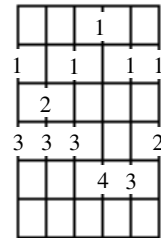
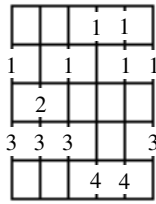
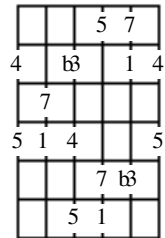
52

b3



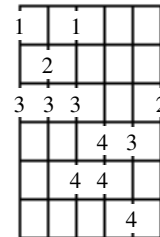
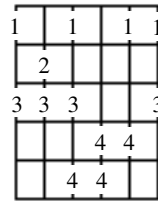
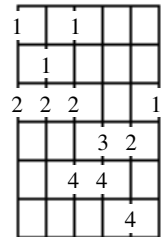
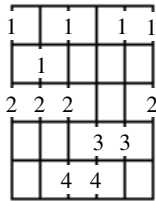
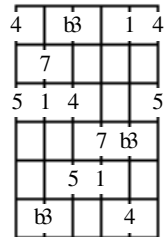
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3



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4



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	b5							
		53 / 631						
	5							
		631						
	b6							
		631						
	6							
		641						
	b7							
		641						
	7							

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53

b5

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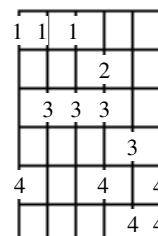
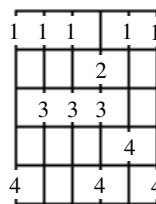
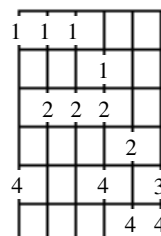
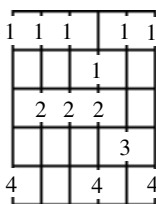
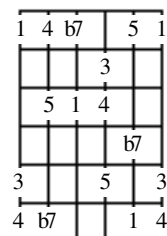
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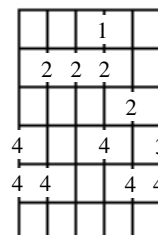
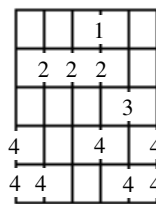
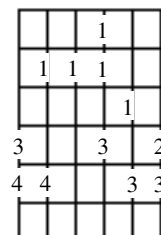
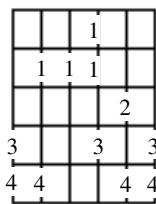
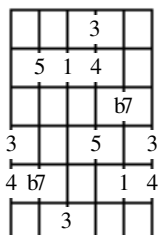
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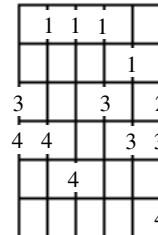
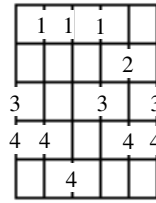
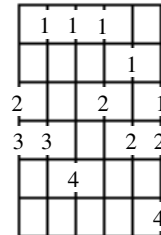
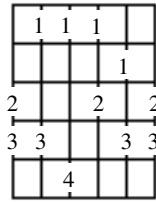
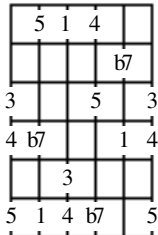
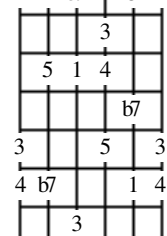
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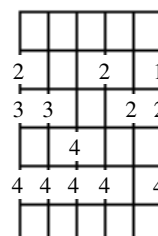
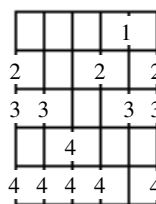
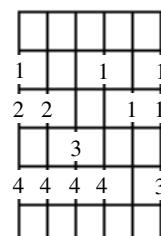
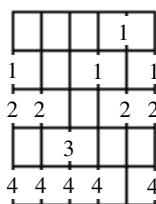
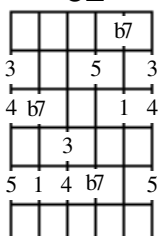
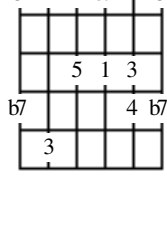
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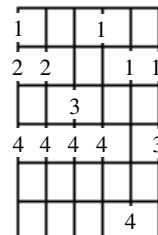
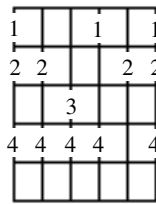
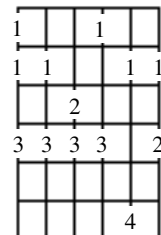
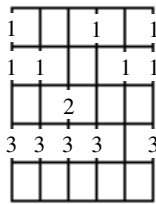
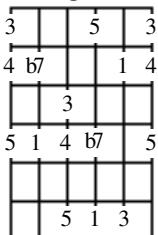
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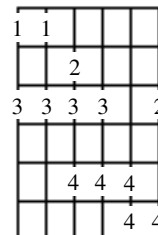
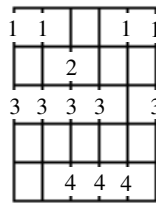
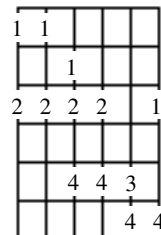
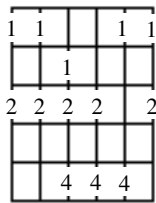
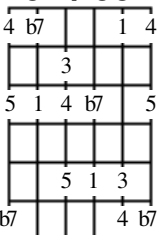
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3



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4

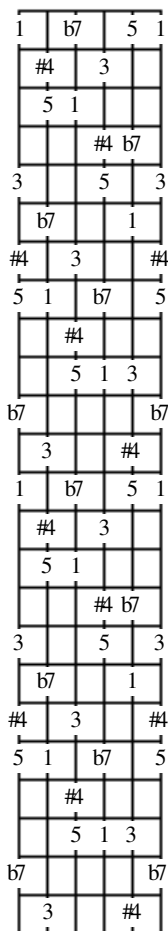


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	<p>53 / 631</p>	<p>5</p>	<p>5 1 4 b7 5</p> <p>5 1 3</p> <p>b7 4 b7</p> <p>3</p> <p>1 4 b7 5 1</p>	<p>1 1 1 1 1</p> <p>2 2 2</p> <p>3 3 3</p> <p>4</p>	<p>1 1 1 1 1</p> <p>2 2 1</p> <p>3 2 2</p> <p>4 4 4</p>	<p>1 1 1 1 1</p> <p>3 3 3</p> <p>4 4 4</p> <p>4</p>	<p>1 1 1 1 1</p> <p>3 3 2</p> <p>4 3 3</p> <p>4 4 4</p>
	<p>631</p>	<p>b6</p>	<p>5 1 3</p> <p>b7 4 b7</p> <p>3</p> <p>1 4 b7 5 1</p> <p>3</p>	<p>1 1 1</p> <p>2 2 2</p> <p>3 4 4</p>	<p>1 1 1</p> <p>2 1 1</p> <p>3 3 3</p>	<p>2 2 2</p> <p>3 3 3</p> <p>4 4 4</p>	<p>2 2 1</p> <p>3 2 2</p> <p>4 4 4</p>
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	<p>641</p>	<p>b7</p>	<p>b7 4 b7</p> <p>3</p> <p>1 4 b7 5 1</p> <p>3</p> <p>5 1 4</p> <p>b7</p>	<p>1 1 1 1 1</p> <p>1</p> <p>2 2 2</p> <p>3 4 4</p>	<p>1 1 1 1 1</p> <p>1</p> <p>2 2 2</p> <p>3 4 4</p> <p>4</p>	<p>1 1 1 1 1</p> <p>2</p> <p>3 3 3</p> <p>4 4 4</p>	<p>1 1 1 1 1</p> <p>2</p> <p>3 3 3</p> <p>2 2 2</p> <p>4 4 4</p> <p>4</p>
	<p>641</p>	<p>7</p>	<p>3</p> <p>1 4 b7 5 1</p> <p>3</p> <p>5 1 4</p> <p>b7</p> <p>3 5 3</p>	<p>1 1 1 1 1</p> <p>2</p> <p>3 3 3</p> <p>4</p>	<p>1 1 1 1 1</p> <p>2</p> <p>3 3 3</p> <p>3 4</p>	<p>1 1 1 1 1</p> <p>3</p> <p>4 4 4</p> <p>4</p>	<p>1 1 1 1 1</p> <p>3</p> <p>4 4 4</p> <p>4</p> <p>4</p>

7/#11 pentatonic scale

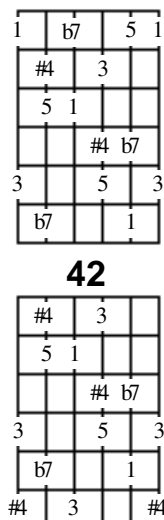
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1



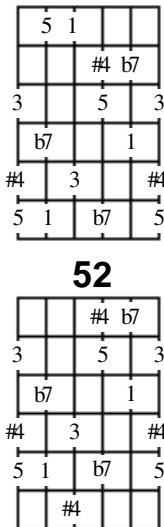
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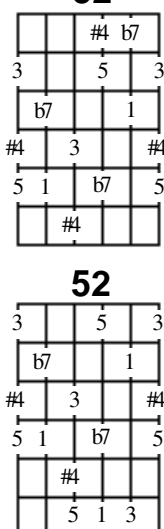
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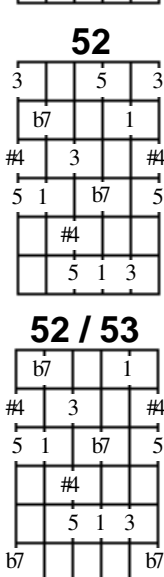


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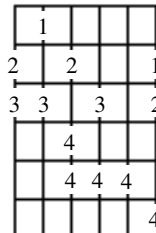
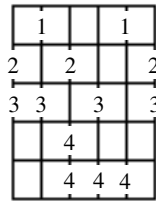
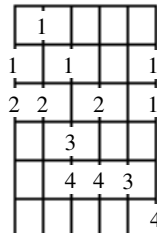
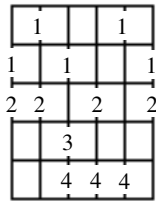
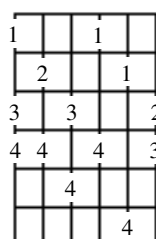
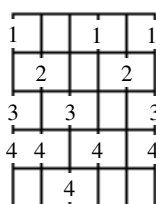
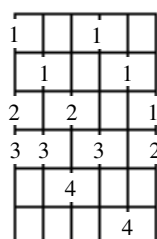
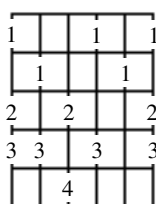
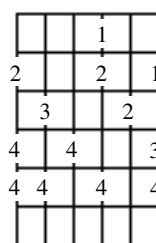
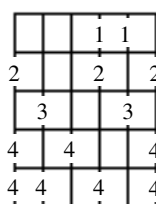
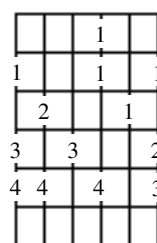
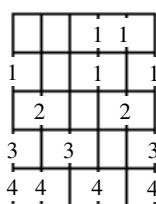
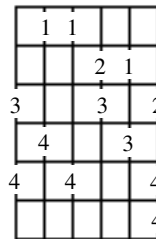
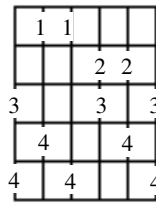
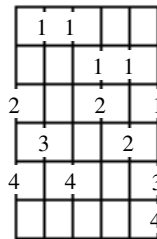
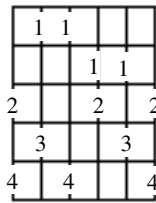
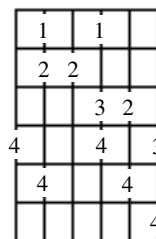
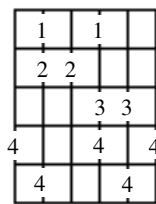
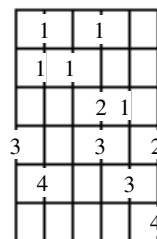
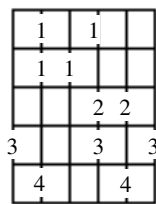
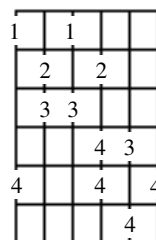
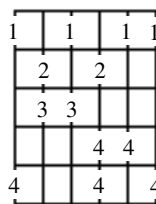
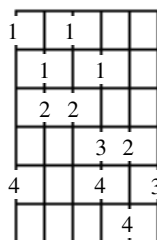
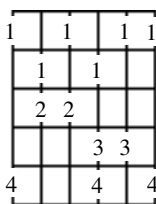
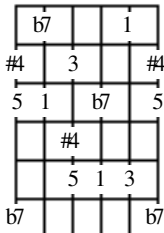


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4

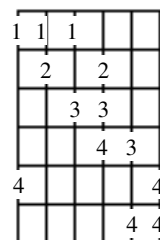
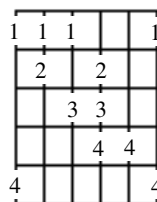
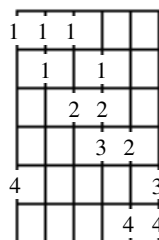
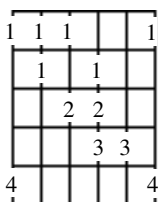
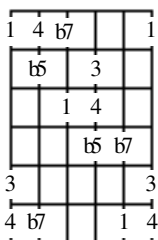
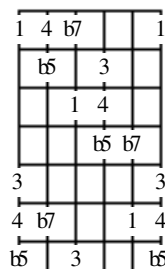


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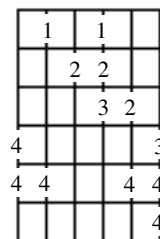
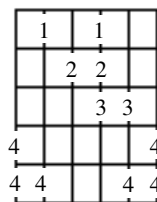
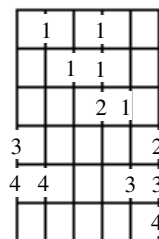
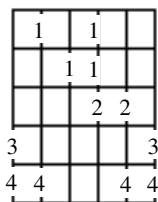
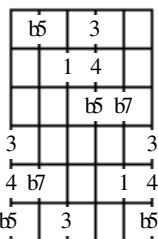
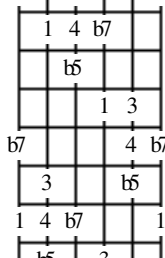
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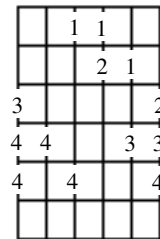
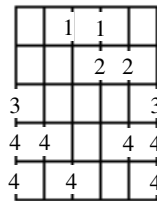
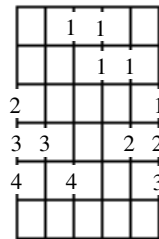
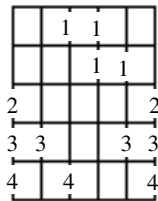
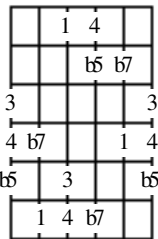
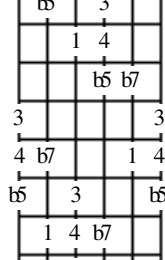
42

b2



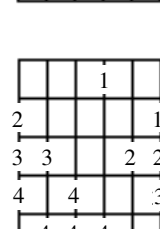
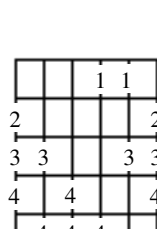
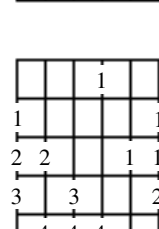
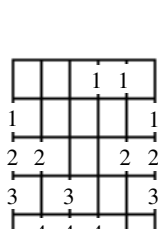
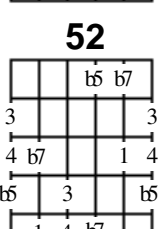
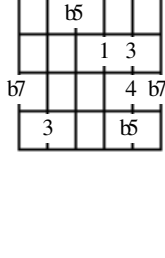
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2



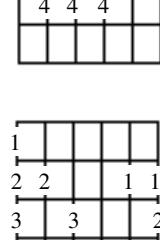
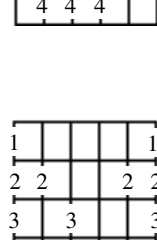
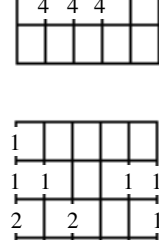
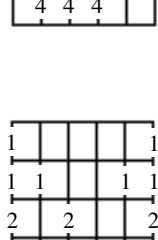
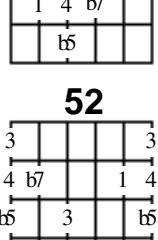
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b3



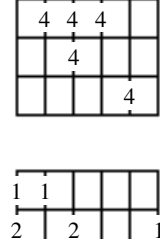
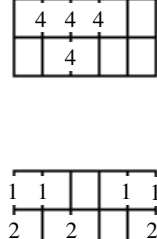
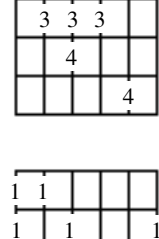
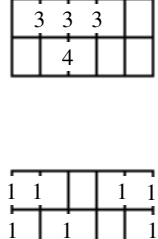
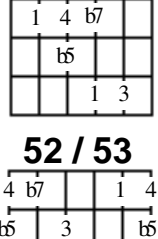
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3



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4

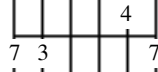
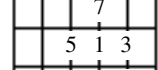
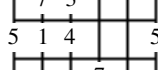
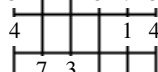
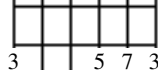
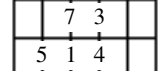
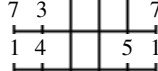
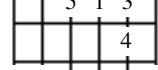
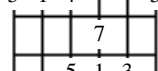
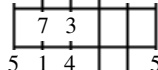
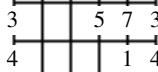
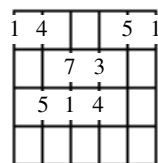


		53				
	b5					
		53 / 631				
	5					
		631				
	b6					
		631				
	6					
		641				
	b7					
		641				
	7					

$\Delta 7/11$ pentatonic scale

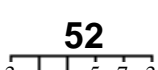
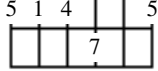
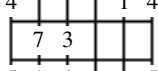
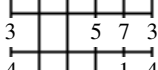
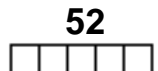
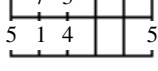
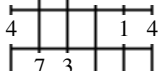
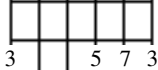
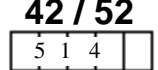
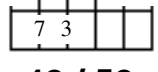
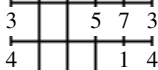
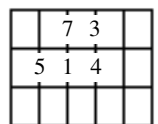
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1



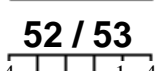
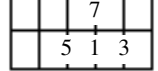
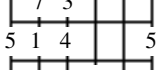
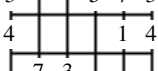
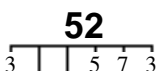
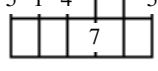
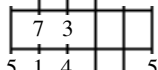
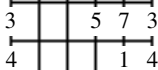
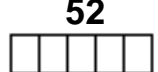
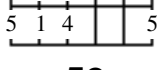
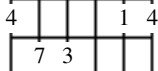
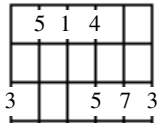
42

b2



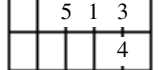
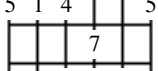
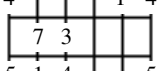
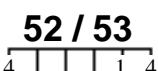
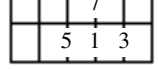
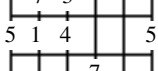
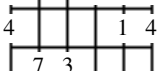
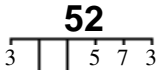
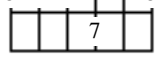
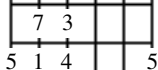
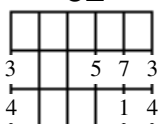
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2



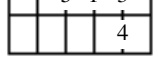
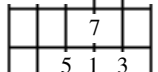
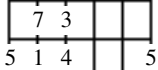
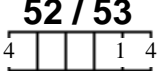
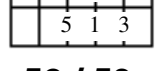
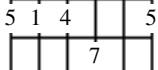
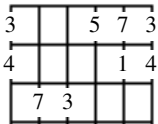
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b3



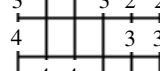
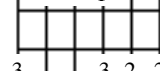
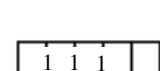
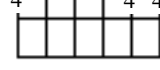
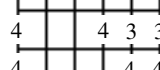
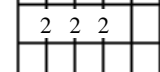
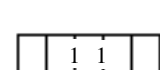
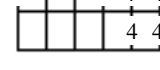
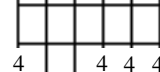
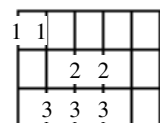
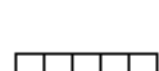
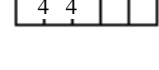
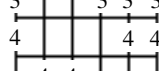
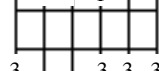
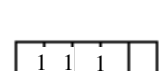
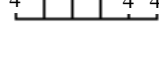
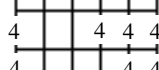
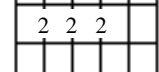
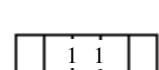
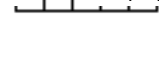
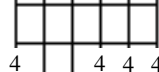
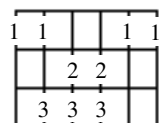
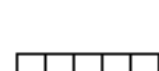
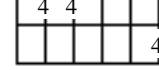
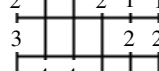
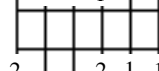
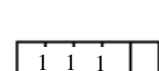
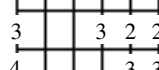
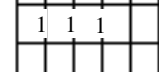
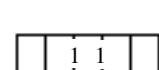
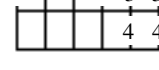
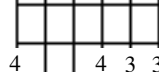
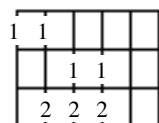
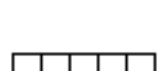
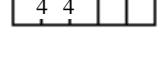
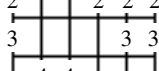
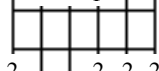
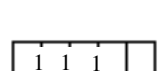
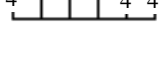
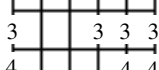
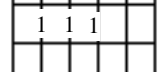
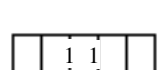
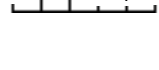
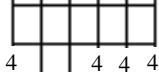
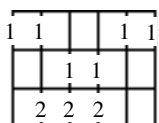
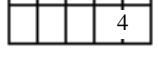
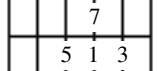
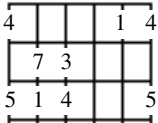
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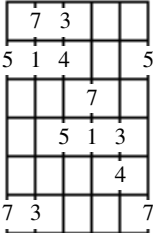
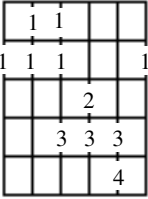
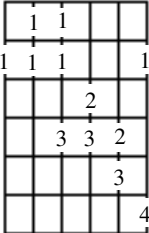
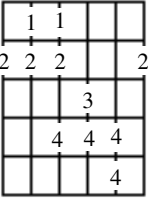
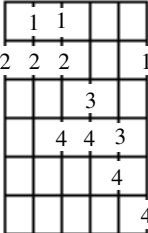
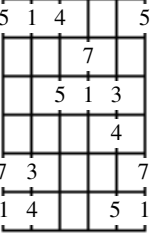
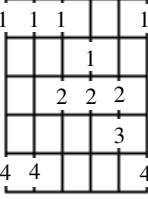
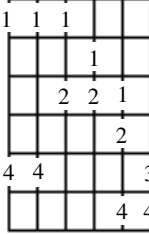
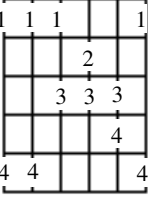
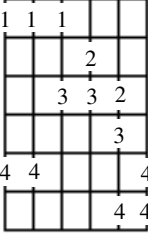
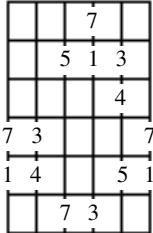
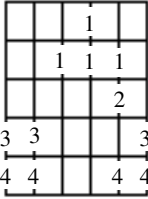
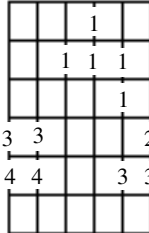
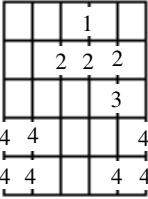
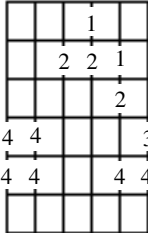
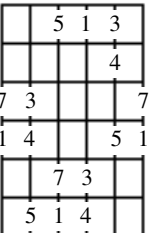
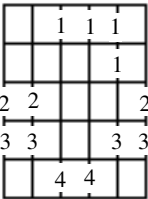
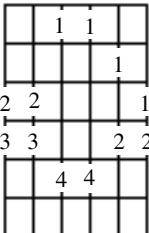
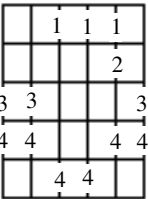
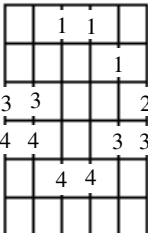
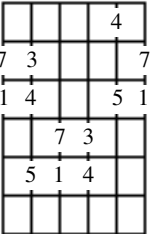
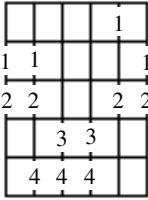
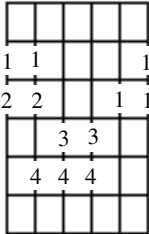
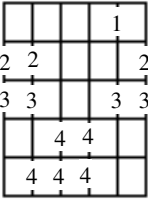
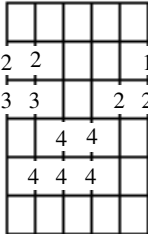
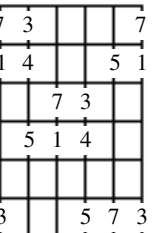
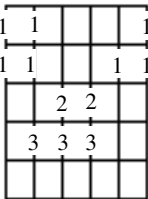
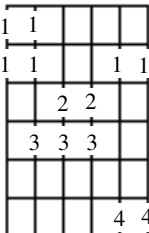
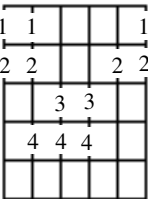
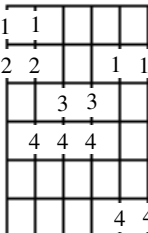
3



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4



		53						
	b5							
		53 / 631						
	5							
		631						
	b6							
		631						
	6							
		641						
	b7							
		641						
	7							

$\Delta 7/\#11$ pentatonic scale

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1			5	1
#4	7	3		
5	1			
		#4		
3			5	7
			1	3
#4	7	3		#4
5	1			5
	#4	7		
	5	1	3	
7	3		#4	7
1			5	1
#4	7	3		
5	1			
		#4		
3			5	7
			1	3
#4	7	3		#4
5	1			5
	#4	7		
	5	1	3	
7	3		#4	7

1

1				5	1
	#4	7	3		
	5	1			
			#4		
3				5	7
					1

A 4x4 grid with numbers at the corners and midpoints of the edges:

1			1
	1	1	
	2	2	
		3	
4		4	4

1				
	1	1	1	
	2	2		
			3	
4			4	3
				4

1				1	1
	2	2	2		
	3	3			
			4		
4				4	4

1				
	2	2	2	
	3	3		
			4	
4			4	4
				4

b2

42

#4	7	3		
5	1			
		#4		
3		5	7	3
			1	
#4	7	3		#4

	1	1	1	
	1	1		
			2	
3			3	3
				4

1	1	1		
1	1			
		2		
3		3	2	2
			3	
				4

	1	1	1		
	2	2			
			3		
4			4	4	4
				4	

1	1	1		
2	2			
		3		
4		4	3	2
			4	
				4

2

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	5	1			
			#4		
3			5	7	3
				1	
#4	7	3			#4
5	1				5

	1	1			
			1		
2			2	1	1
				2	
4	4	4			3
					4

	1	1			
			2		
3			3	2	2
				3	
4	4	4			4
					4

b3

52

		#4	
3		5	7
			1
#4	7	3	#4
5	1		5
	#4	7	

A 4x4 grid with numbers at intersections:

- Row 1: 1 at (1,3), 1 at (1,4), 1 at (1,5)
- Row 2: 2 at (2,4)
- Row 3: 3 at (3,1), 3 at (3,2), 3 at (3,3), 3 at (3,5)
- Row 4: 4 at (4,1), 4 at (4,2), 4 at (4,5)

A horizontal line is drawn below the grid, and a vertical line is drawn to the left of the grid.

		1	
1		1	1
			1
3	3	3	2
4	4		3

A 4x4 grid with numbers placed in the following cells:

		1	
2		2	2
			3
4	4	4	

		1	
2		2	1
		2	
4	4	4	3
4	4		4

3

52

3			5	7	3
				1	
#4	7	3			#4
5	1				5
		#4	7		
		5	1	3	

A 5x5 grid with numbers indicating the count of squares in each row and column. The numbers are placed outside the grid, centered relative to the row or column they describe.

1			1	1	1
				1	
2	2	2			2
3	3				3
		4	4		

1			1	
				1
2	2	2		1
3	3			2
		4	4	
				4

1			1	1	1
				2	
3	3	3			3
4	4				4
		4	4		

1			1		
				1	
3	3	3			2
4	4				3
		4	4		
				4	

4

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				1	
#4	7	3			#4
5	1				5
		#4	7		
		5	1	3	

A 4x4 grid with numbers placed at intersections and within cells:

- Top row: A '1' is in the third cell.
- Second row: '1's are at the first, second, and third intersections. '2's are at the first and second intersections.
- Third row: '3's are in the second and third cells.
- Bottom row: '4's are in the second, third, and fourth cells.

1	1	1		1
2	2			1
		3	3	
		4	4	3

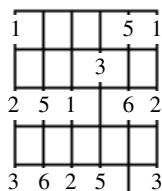
A 5x5 grid with numbers at the intersections of its lines. The numbers are: 1 at (1,4), 2 at (2,1), (2,2), (2,3), and (2,5), 3 at (3,1), (3,2), and (3,5), and 4 at (4,3), (4,4), (5,3), (5,4), and (5,5). The grid is defined by 6 horizontal and 6 vertical lines.

2	2	2		1
3	3			2
		4	4	
		4	4	4

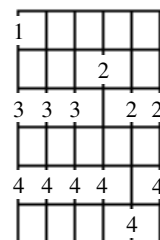
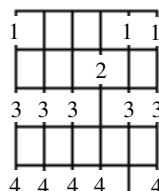
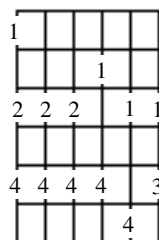
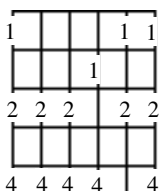
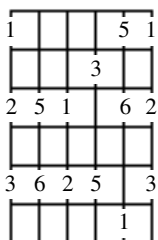
		53					
	b5						
		53 / 631					
	5						
		631					
	b6						
		631					
	6						
		641					
	b7						
		641					
	7						

major 6/9 pentatonic scale

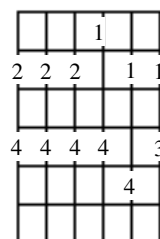
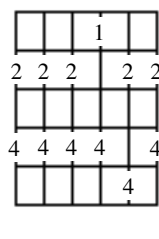
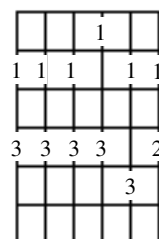
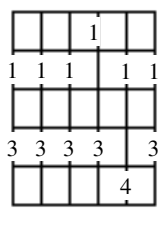
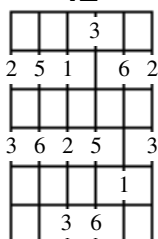
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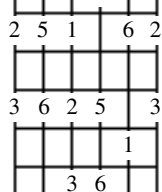
1



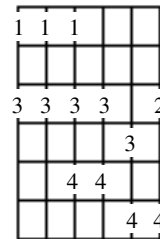
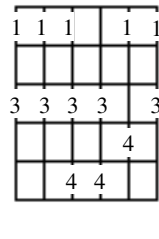
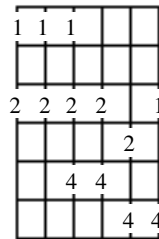
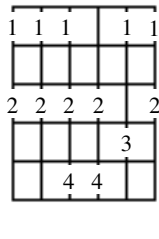
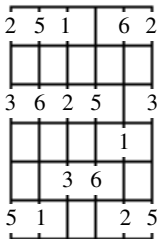
42



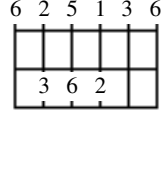
b2



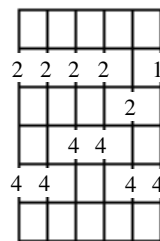
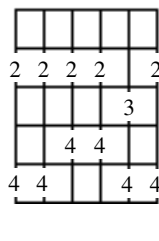
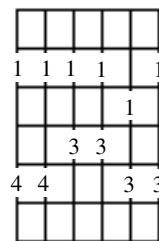
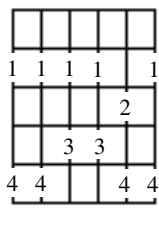
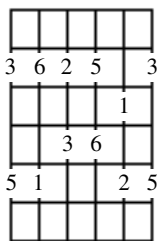
42 / 52



2

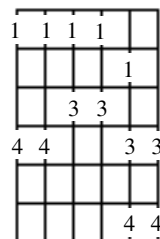
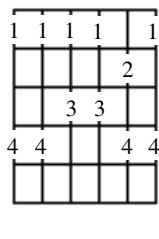
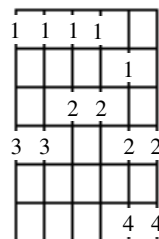
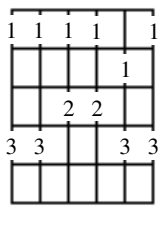
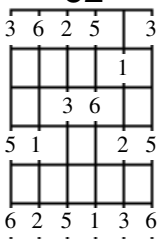


52



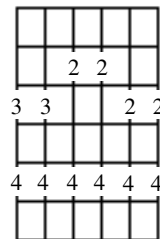
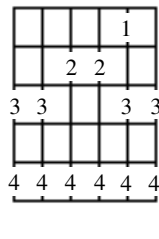
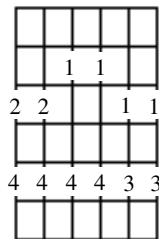
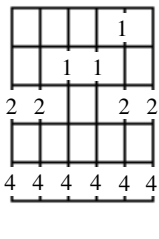
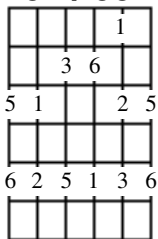
b3

52



3

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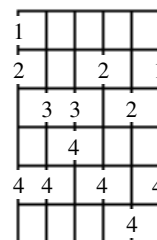
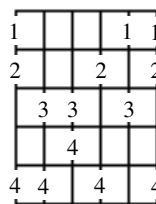
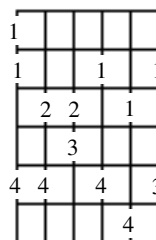
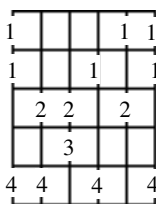
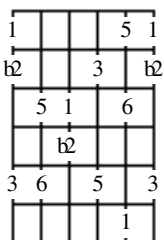
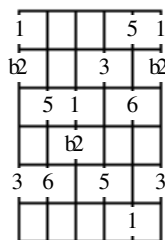
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[illegible]

major 6/b9 pentatonic scale

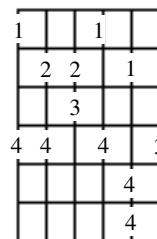
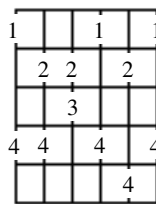
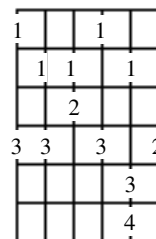
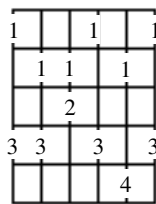
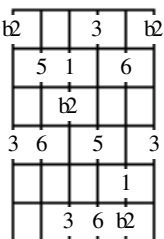
641 / 42

1



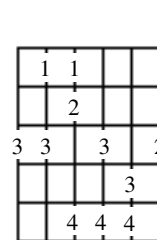
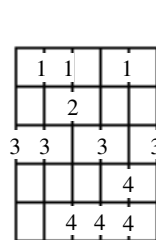
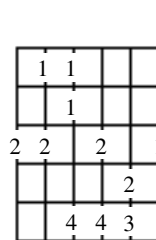
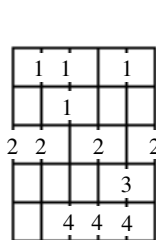
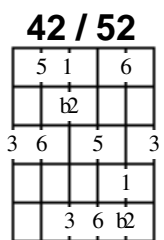
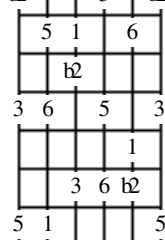
42

b2



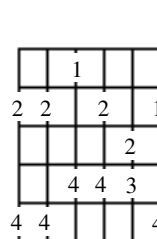
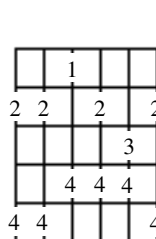
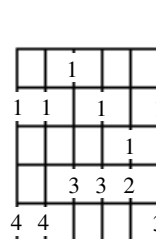
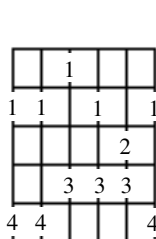
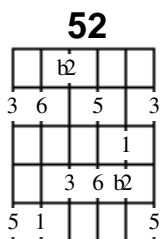
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2



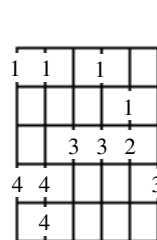
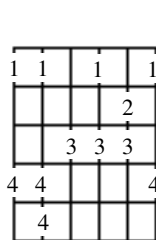
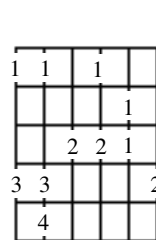
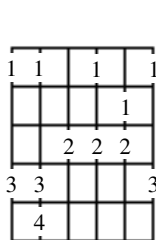
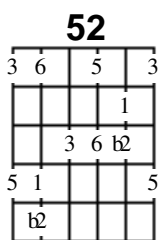
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b3



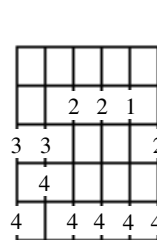
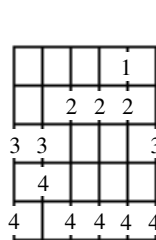
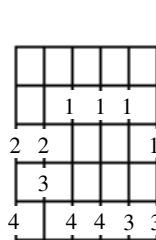
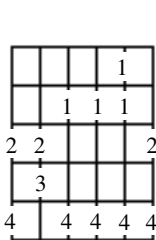
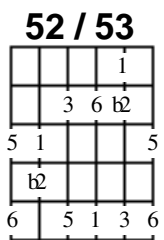
52

3



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4

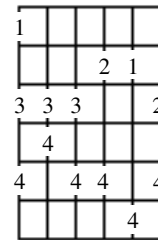
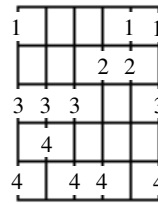
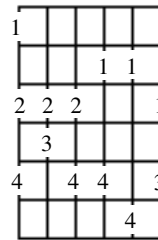
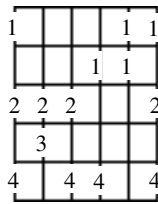
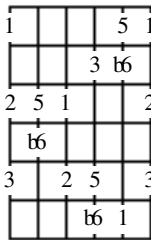
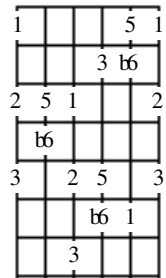


		53					
	b5						
		53 / 631					
	5						
		631					
	b6						
		631					
	6						
		641					
	b7						
		641					
	7						

major b6/9 pentatonic scale

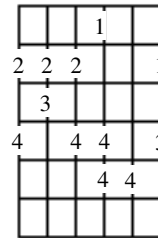
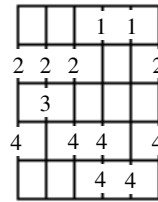
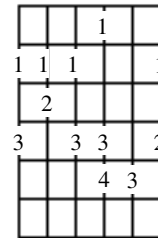
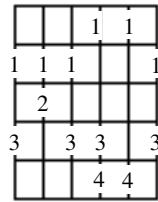
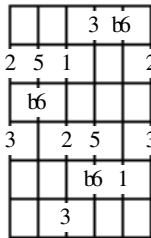
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1



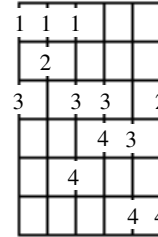
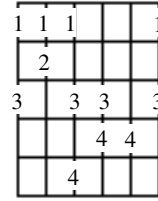
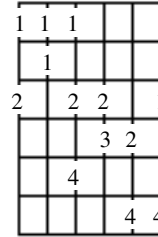
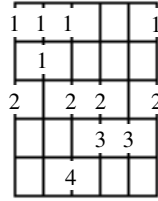
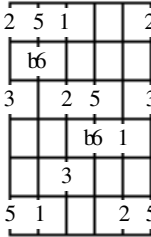
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b2



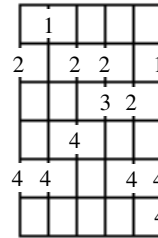
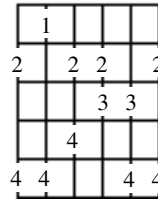
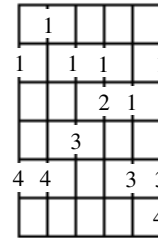
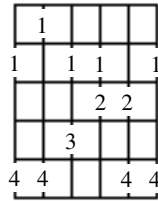
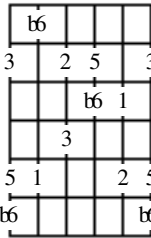
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2



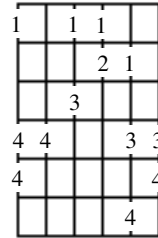
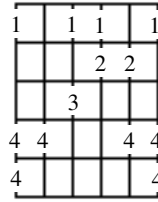
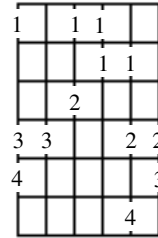
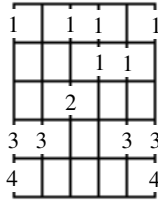
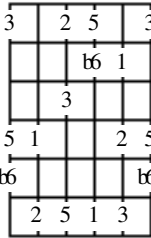
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b3



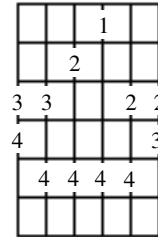
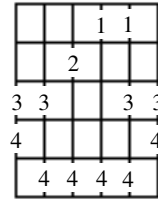
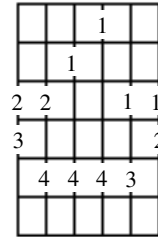
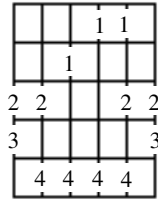
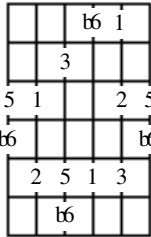
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3



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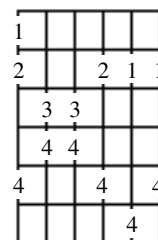
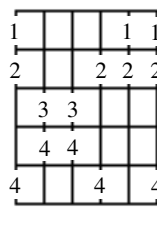
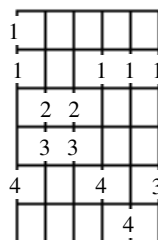
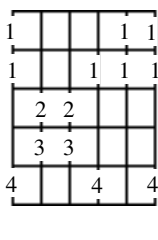
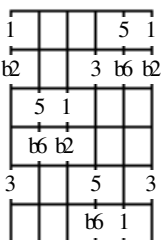
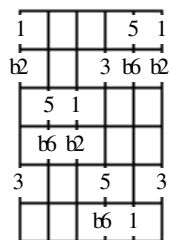
4



major b6/b9 pentatonic scale

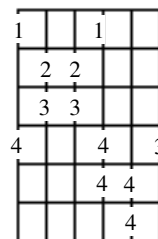
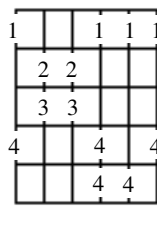
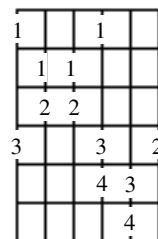
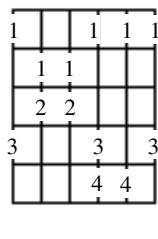
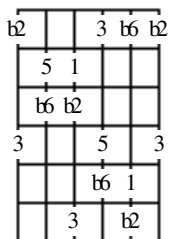
641 / 42

1



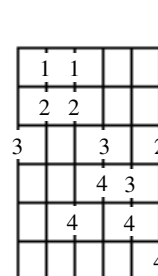
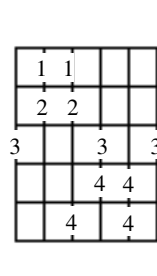
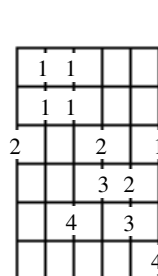
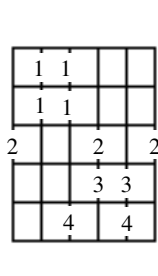
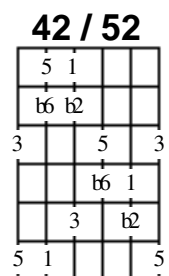
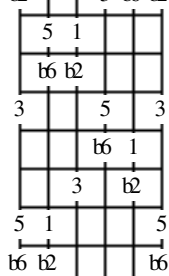
42

b2



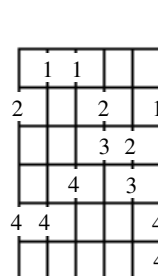
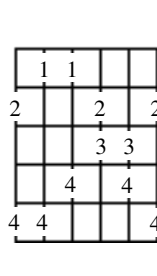
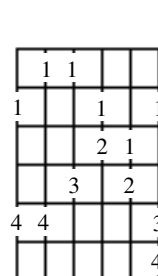
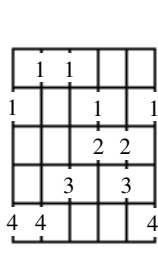
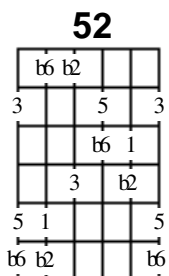
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2



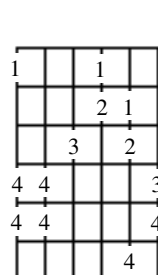
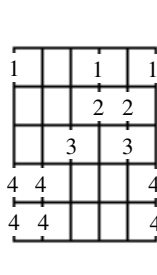
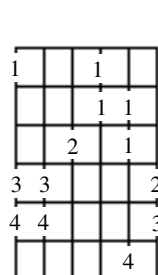
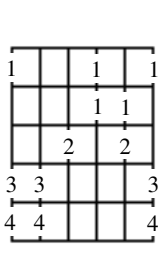
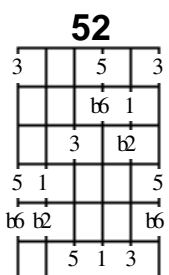
52

b3



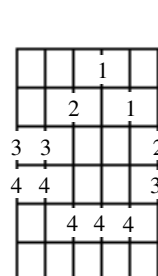
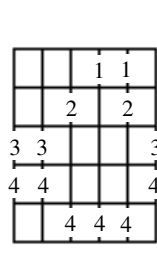
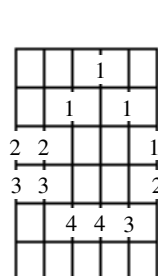
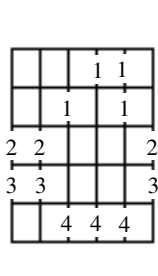
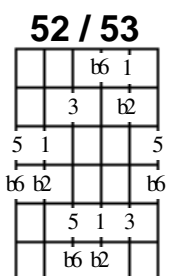
52

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4

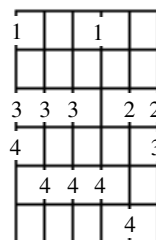
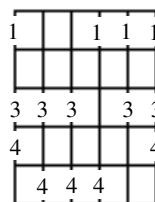
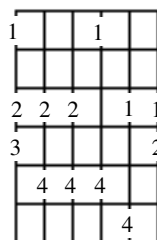
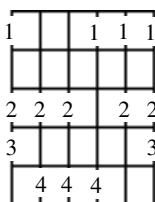
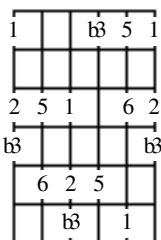
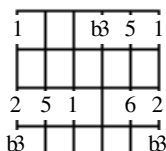


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	b5						
		53 / 631					
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	b6						
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		641					
	b7						
		641					
	7						

minor 6/9 pentatonic scale

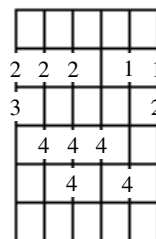
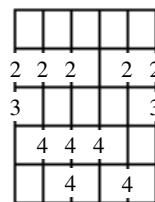
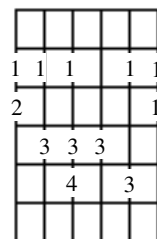
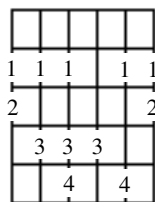
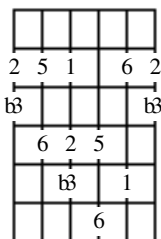
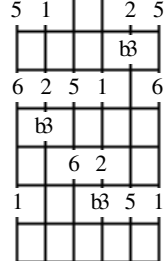
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1



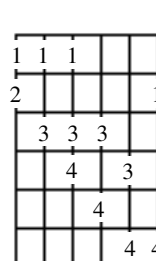
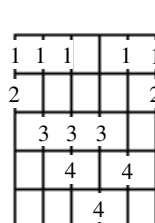
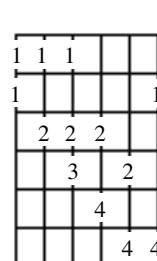
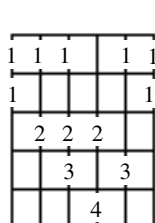
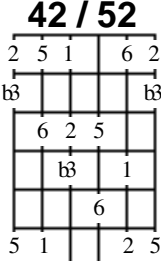
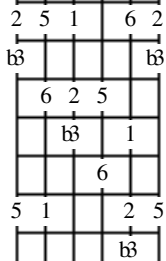
42

b2



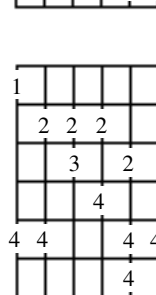
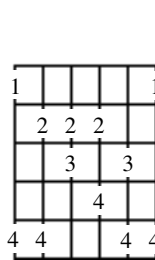
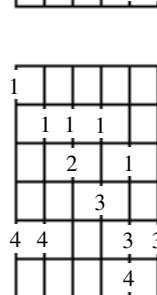
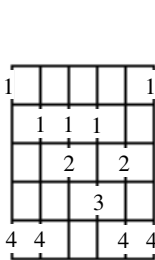
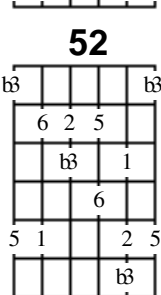
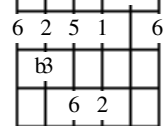
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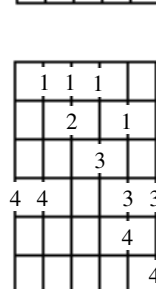
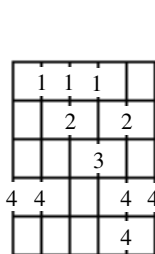
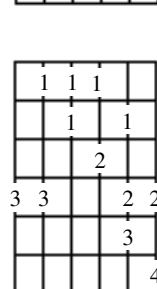
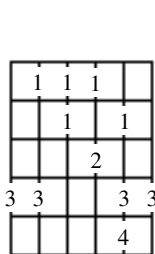
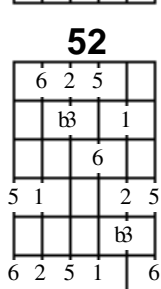
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b3



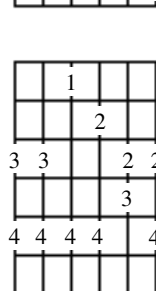
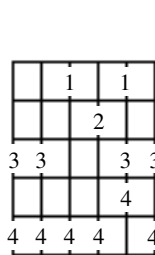
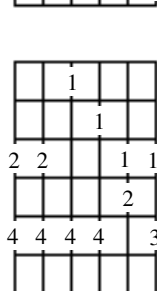
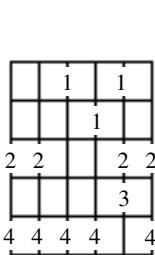
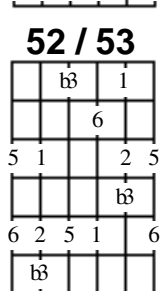
52

3



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4



b5

53

5

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b6

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b7

641

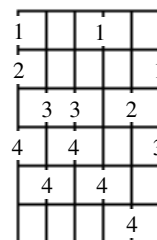
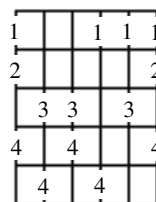
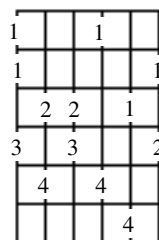
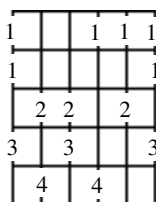
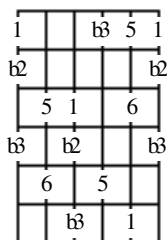
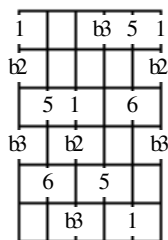
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minor 6/b9 pentatonic scale

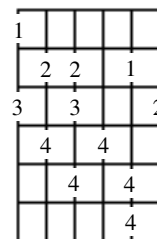
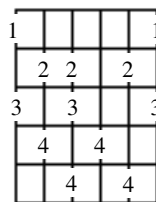
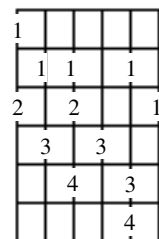
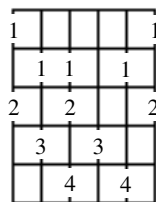
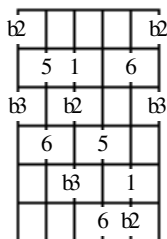
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1



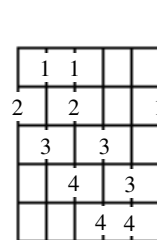
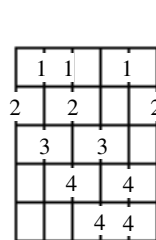
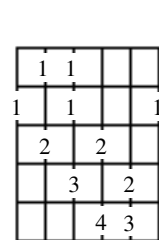
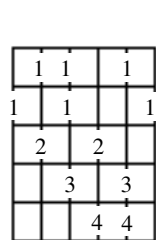
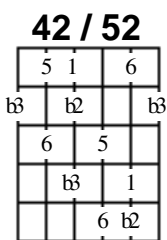
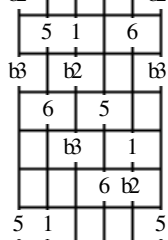
42

b2



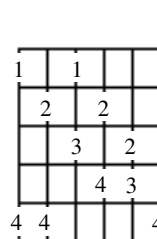
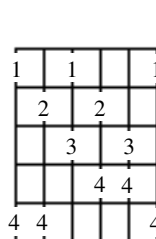
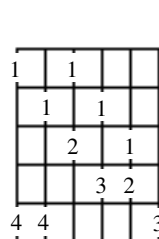
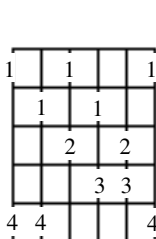
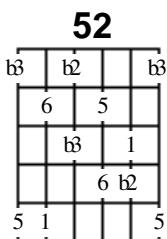
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2



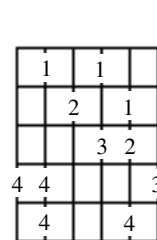
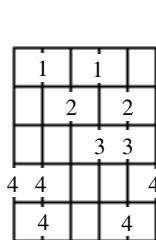
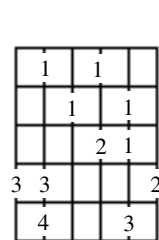
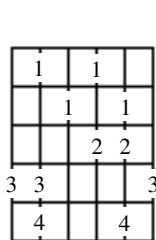
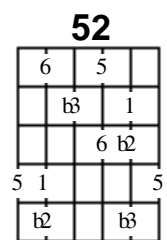
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b3



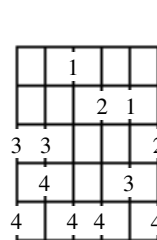
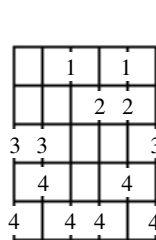
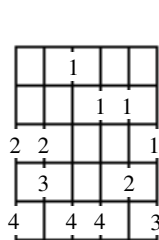
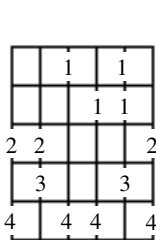
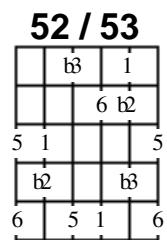
52

3



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4

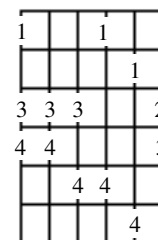
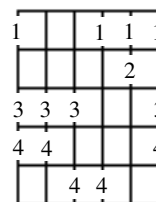
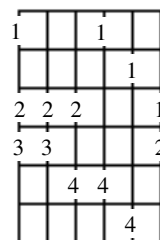
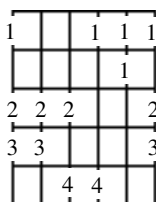
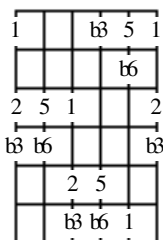
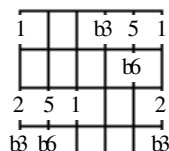


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		53 / 631					
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		641					
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minor b6/9 pentatonic scale

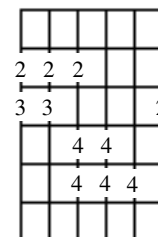
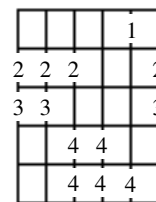
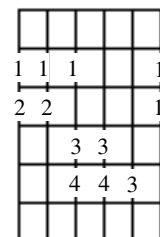
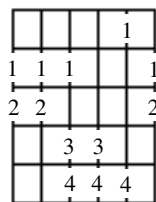
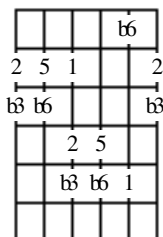
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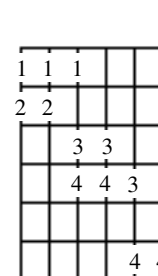
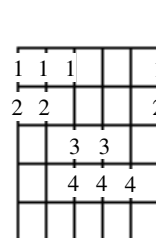
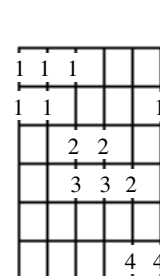
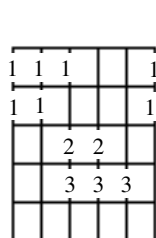
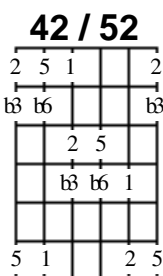
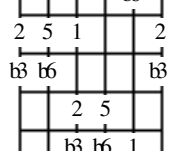
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b2



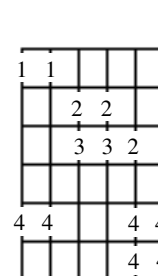
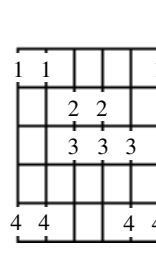
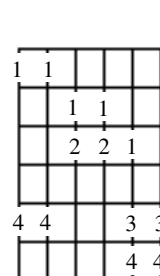
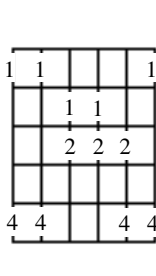
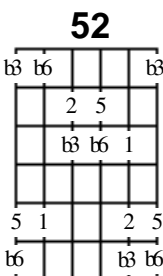
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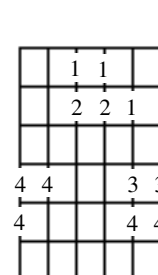
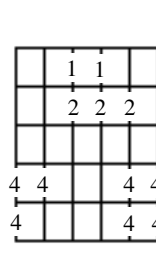
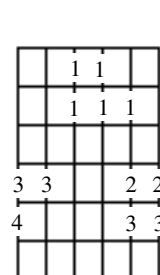
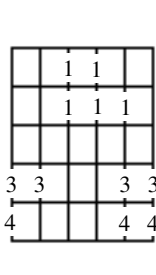
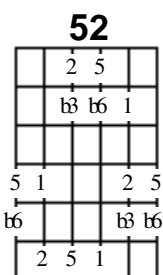
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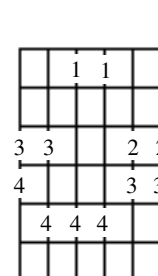
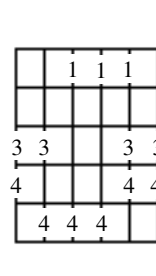
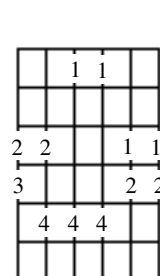
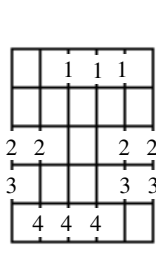
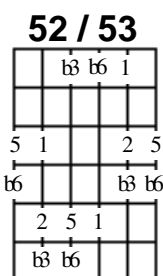
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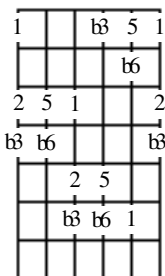
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4



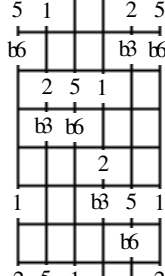
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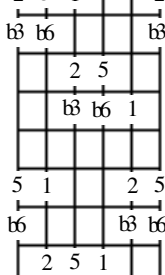
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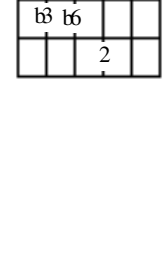
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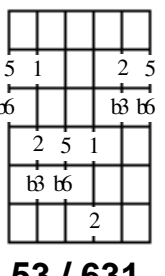
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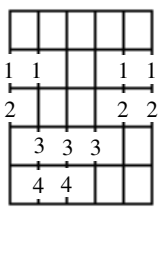


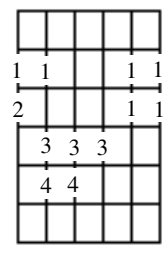
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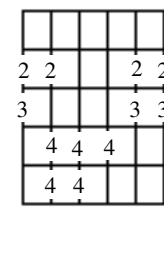
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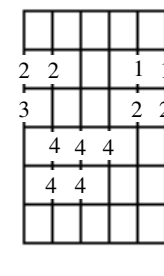


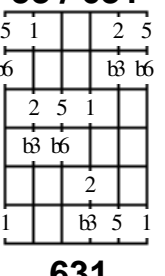


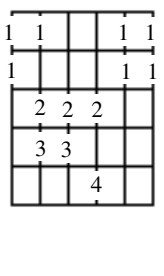


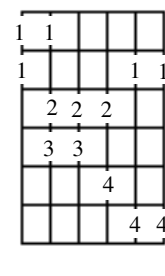


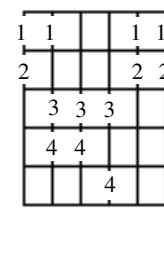


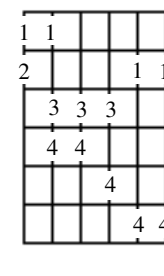


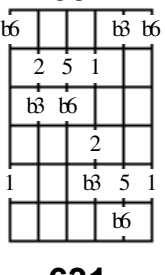


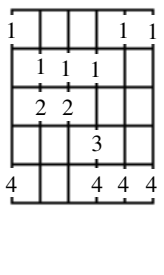


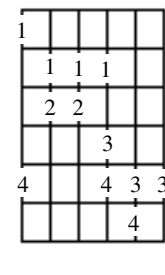


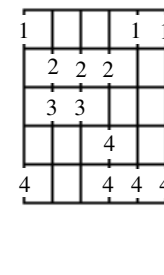


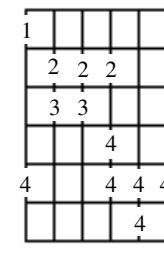


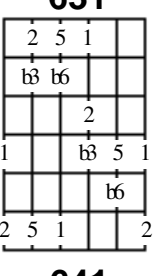


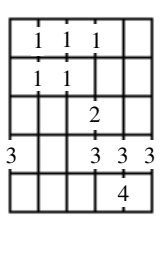


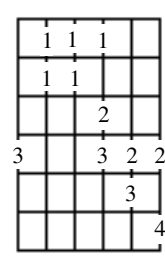


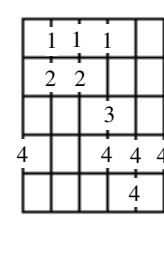


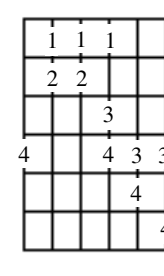


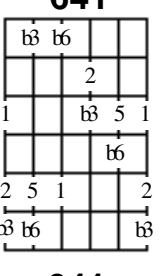


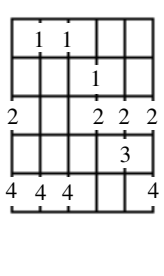


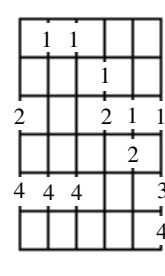


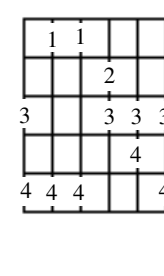


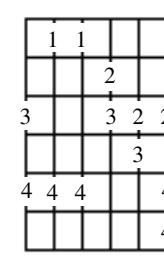


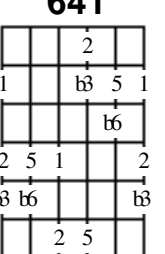


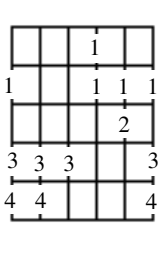


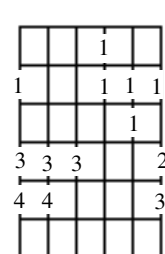


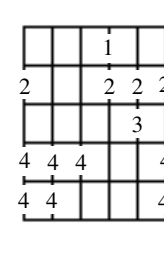


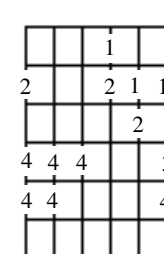








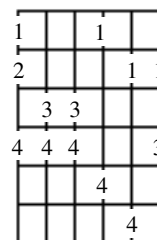
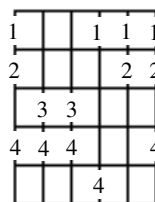
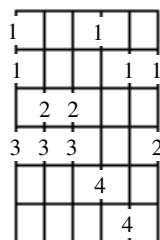
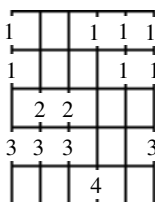
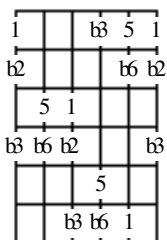
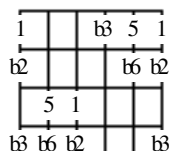




minor b6/b9 pentatonic scale

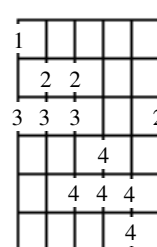
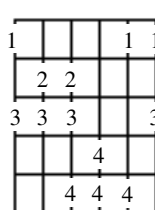
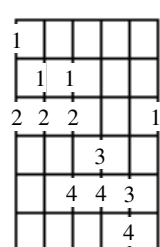
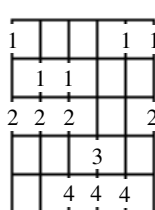
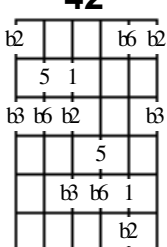
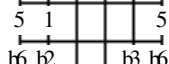
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1



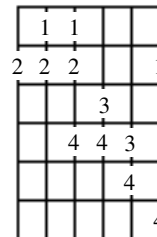
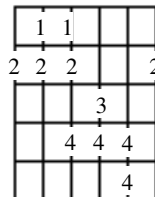
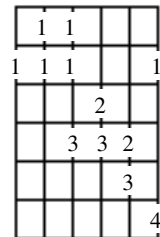
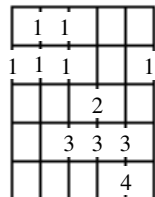
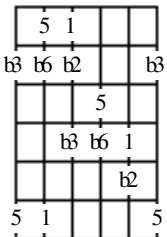
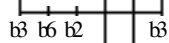
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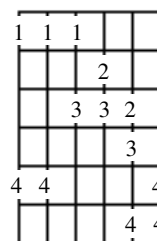
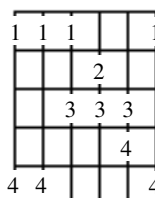
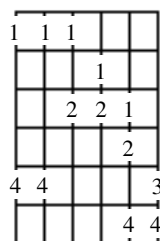
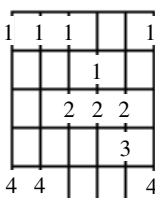
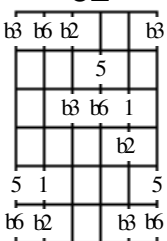
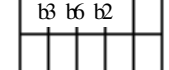
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2



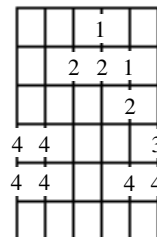
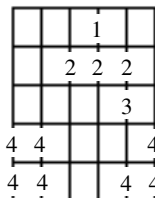
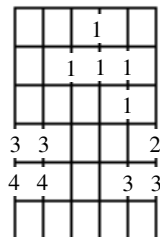
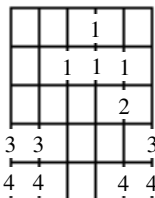
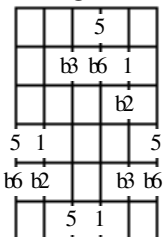
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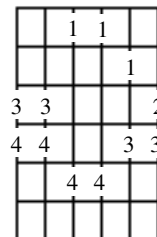
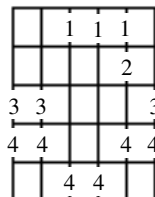
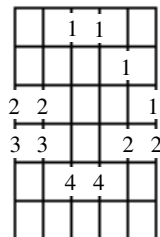
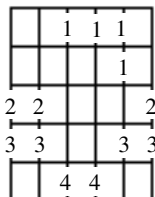
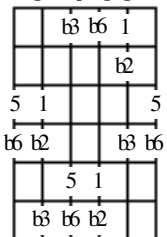
52

3



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4



b5

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b6

631

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641

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6/9 sus. 4 pentatonic scale

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1

1 4 5 1
2 5 1 4 6 2
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6 2 5 1 6
4
6 2
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42

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2

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52

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52

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3

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4

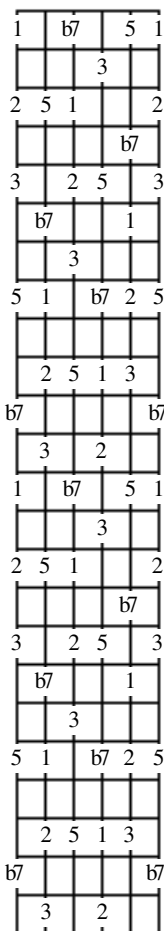
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dominant 9 pentatonic scale

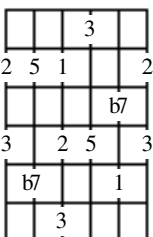
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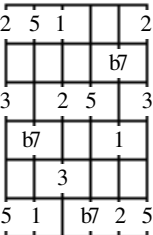
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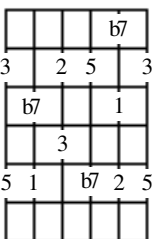
42 / 52

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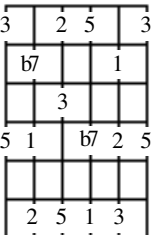
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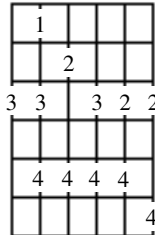
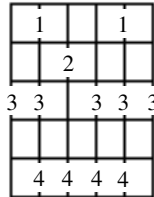
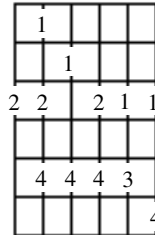
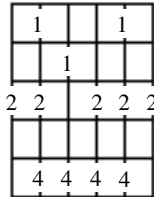
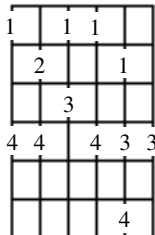
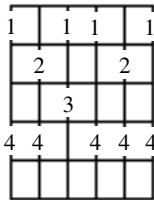
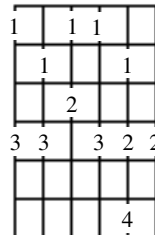
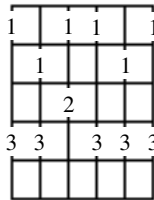
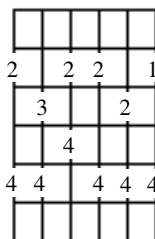
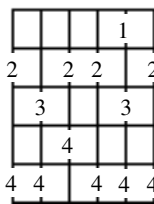
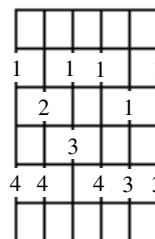
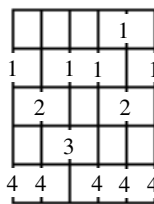
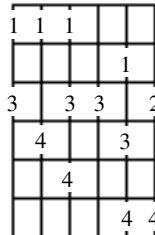
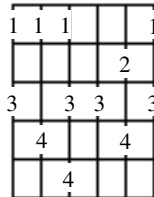
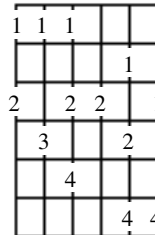
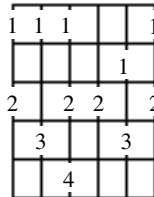
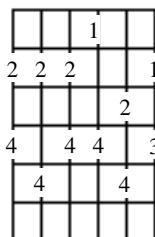
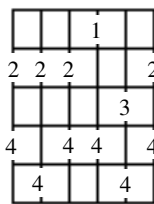
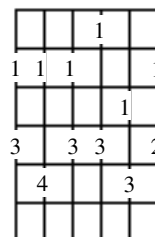
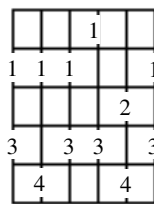
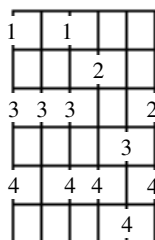
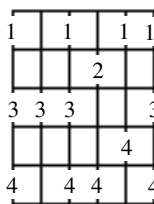
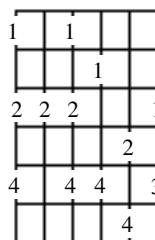
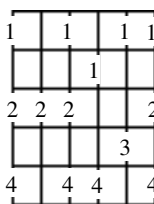
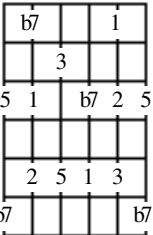
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3



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4

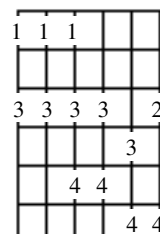
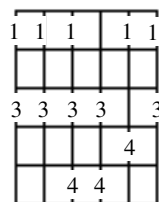
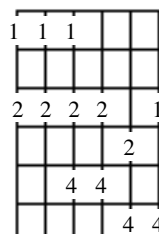
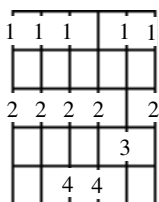
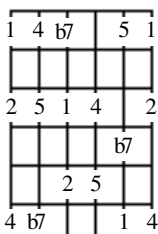
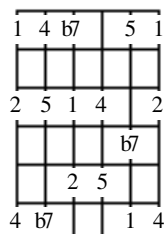


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9 sus. 4 pentatonic scale

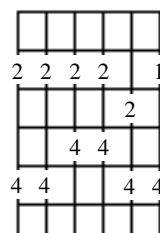
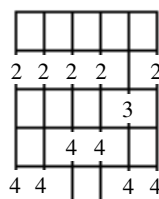
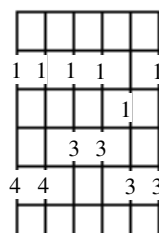
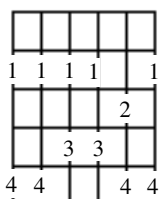
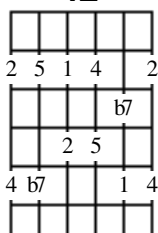
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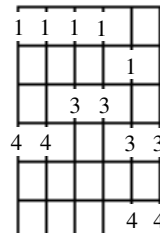
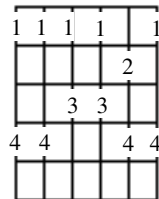
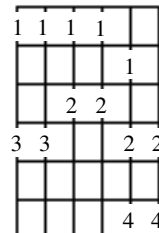
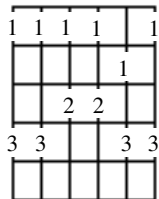
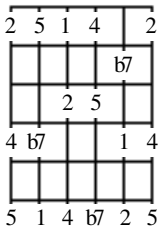
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b2



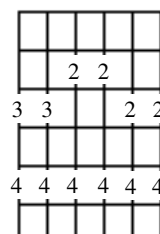
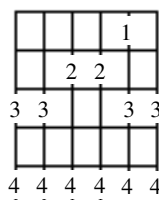
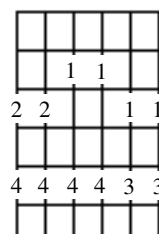
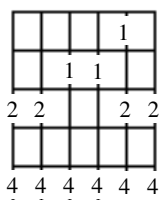
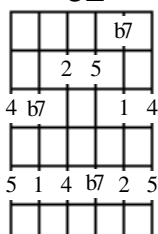
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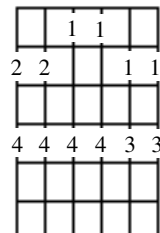
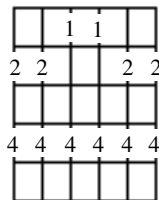
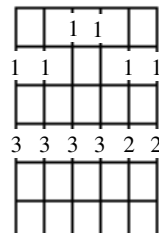
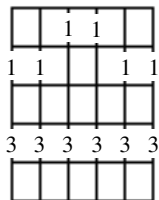
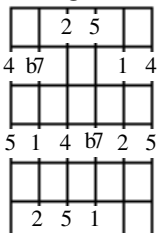
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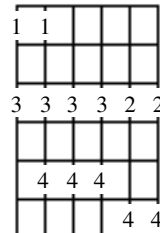
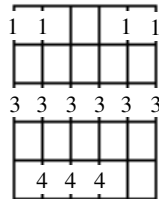
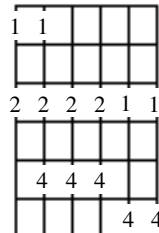
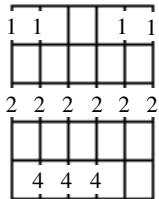
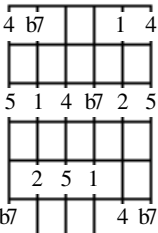
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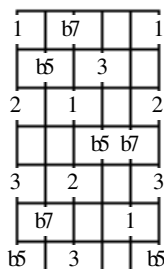


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9b5 pentatonic scale

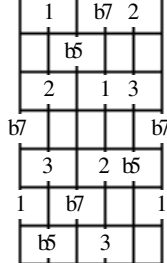
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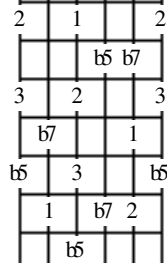
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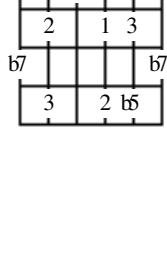
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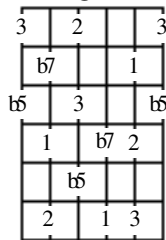
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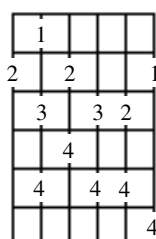
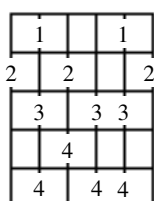
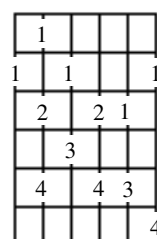
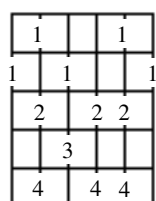
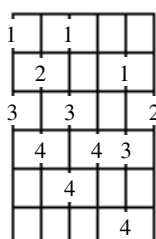
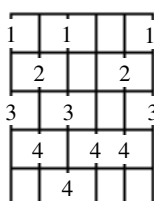
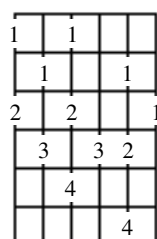
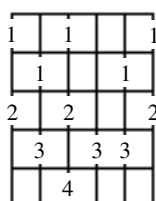
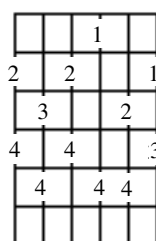
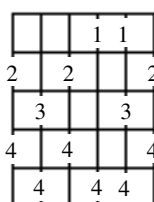
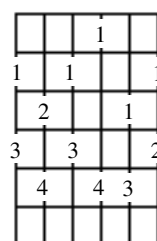
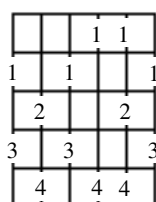
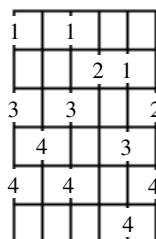
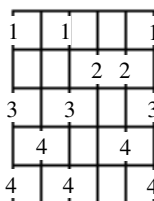
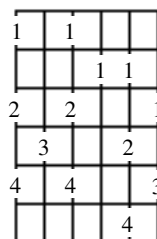
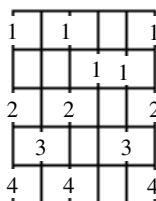
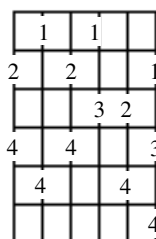
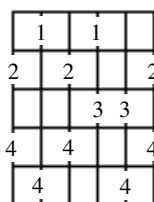
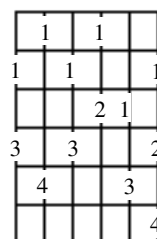
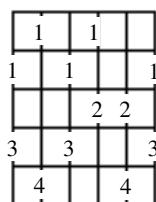
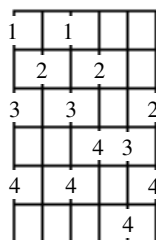
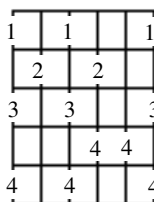
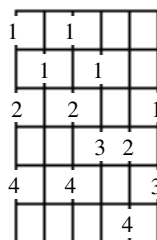
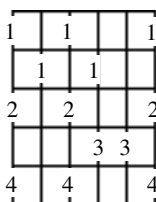
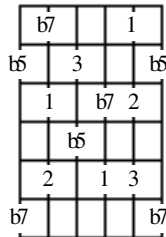
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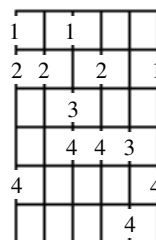
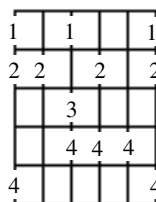
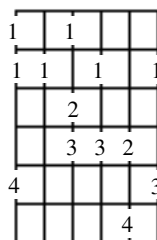
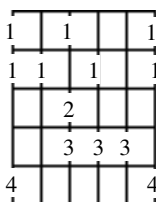
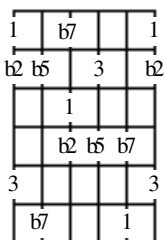
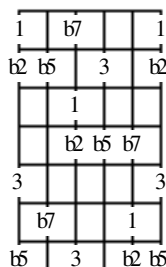


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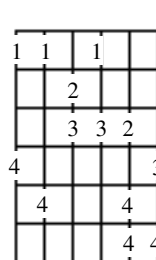
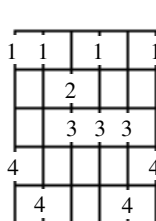
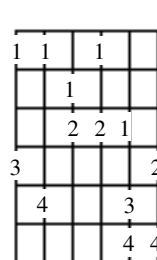
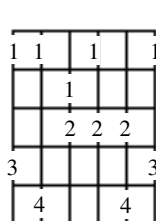
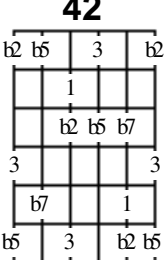
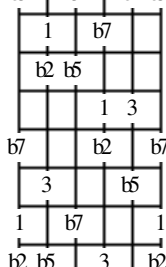
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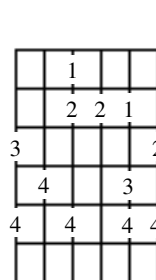
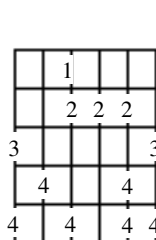
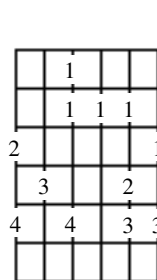
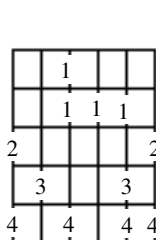
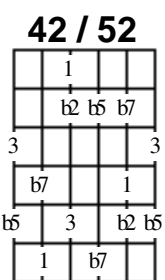
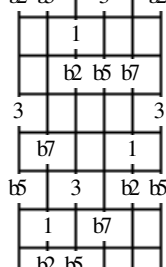
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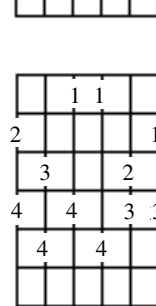
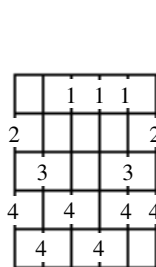
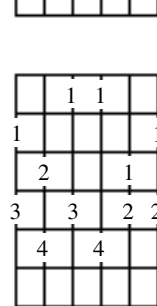
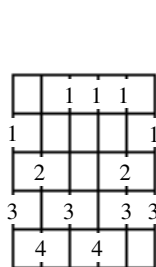
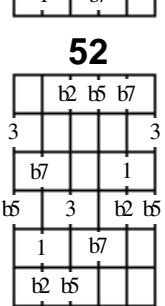
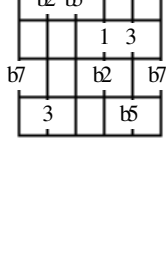
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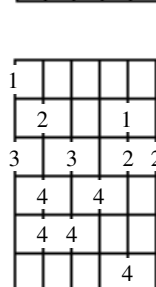
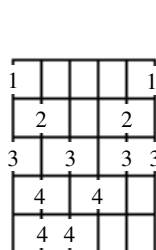
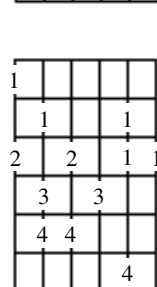
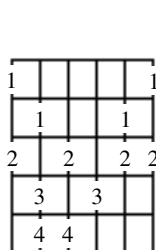
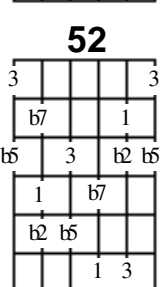
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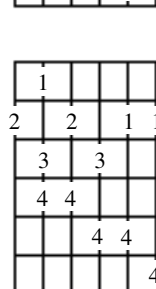
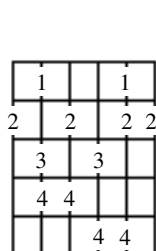
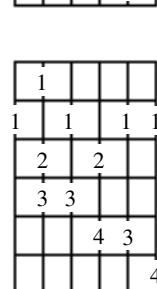
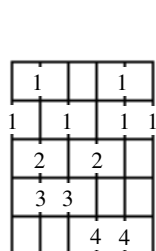
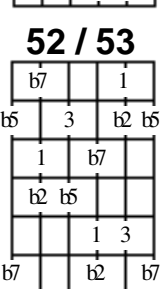
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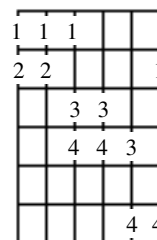
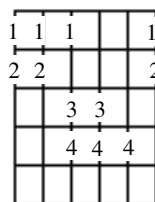
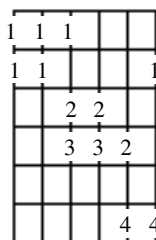
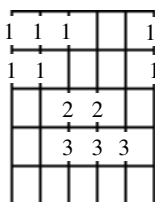
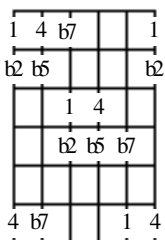
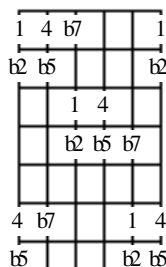


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	b7						
		641					
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7b5b9 sus. 4 pentatonic scale

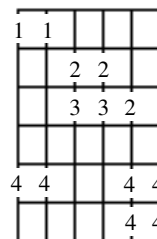
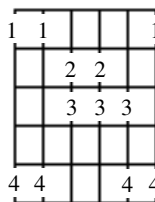
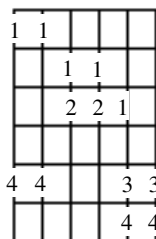
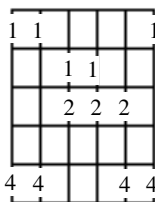
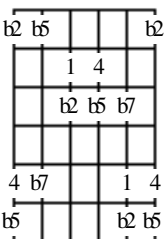
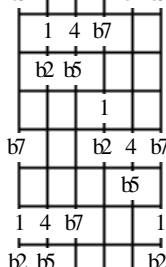
641 / 42

1



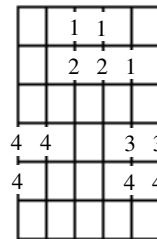
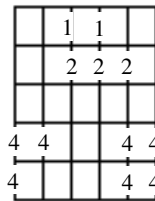
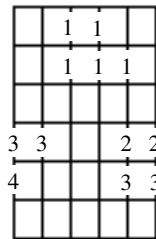
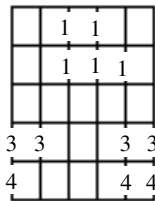
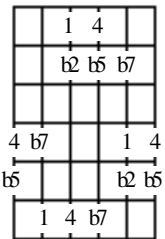
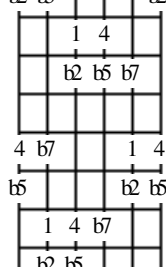
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b2



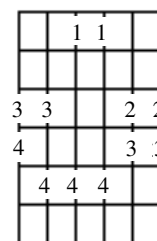
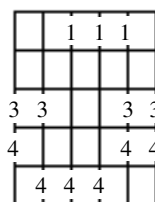
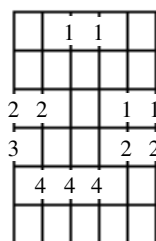
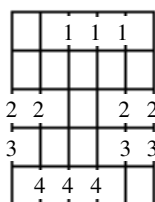
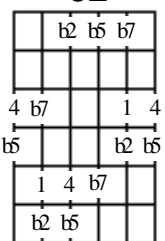
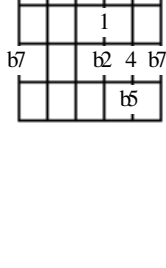
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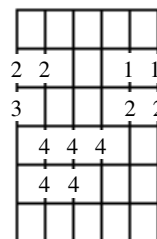
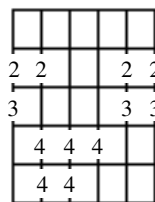
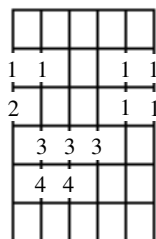
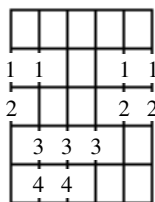
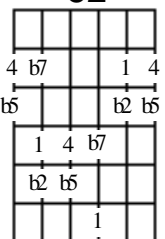
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b3



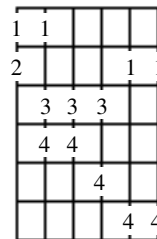
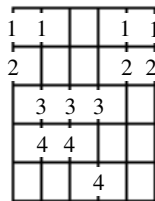
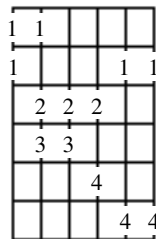
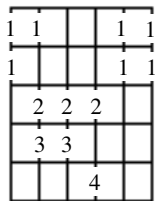
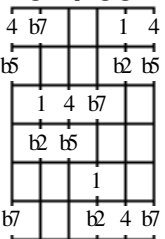
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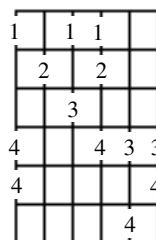
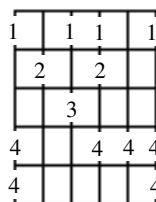
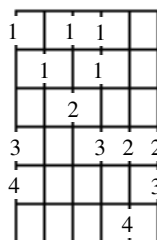
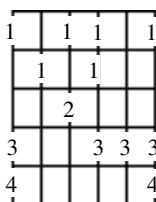
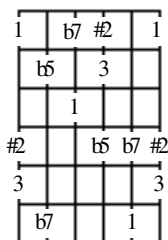
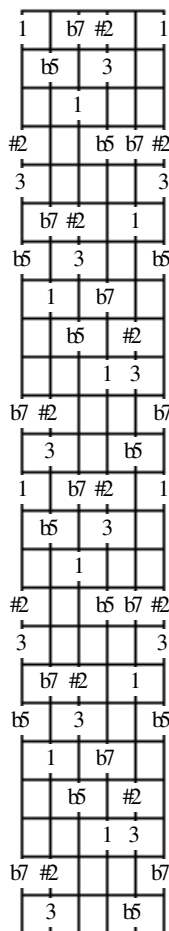


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		631						
b6								
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b7								
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7b5#9 pentatonic scale

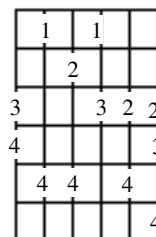
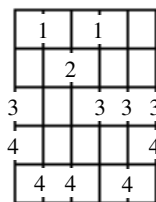
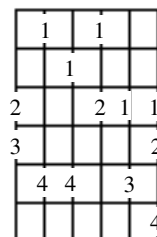
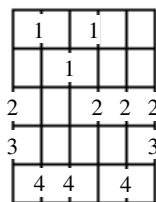
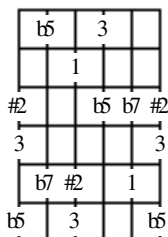
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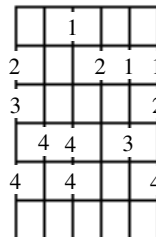
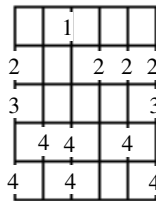
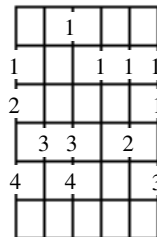
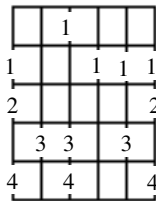
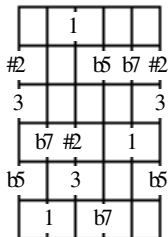
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b2



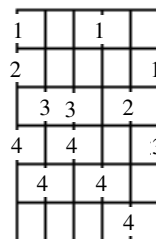
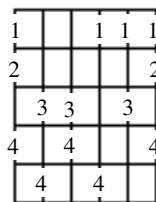
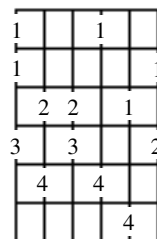
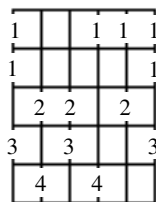
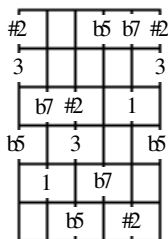
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2



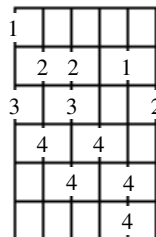
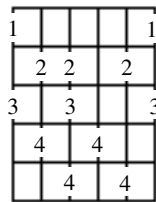
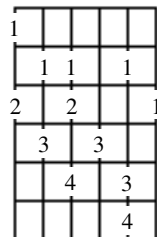
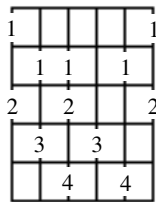
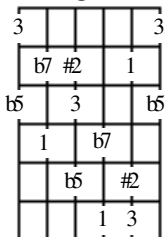
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b3



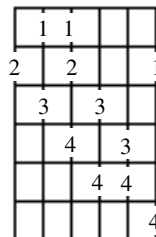
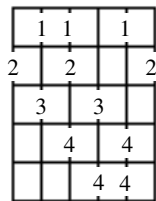
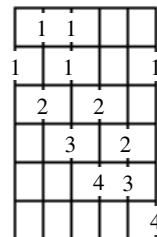
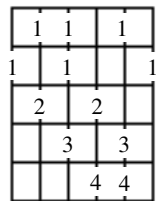
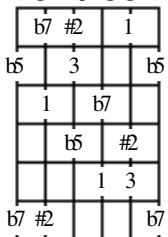
52

3



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4



b5

53

1	b7 #2	1
b5	3	
	1	
#2	b5 b7 #2	
3		3
b7 #2	1	
b5	3	b5

5

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1	b7	
b5	#2	
	1 3	
b7 #2		b7
3	b5	
1	b7 #2	1
b5	3	
	1	
#2	b5 b7 #2	
3		3
b7 #2	1	
b5	3	b5

b6

631

	b5	#2
	1 3	
b7 #2		b7
3	b5	
1	b7 #2	1
b5	3	
	1	
#2	b5 b7 #2	
3		3
b7 #2	1	
b5	3	b5

6

631

	1 3	
b7 #2		b7
3	b5	
1	b7 #2	1
b5	3	
	1	
#2	b5 b7 #2	
3		3
b7 #2	1	
b5	3	b5

b7

641

b7 #2		b7
3	b5	
1	b7 #2	1
b5	3	
	1	
#2	b5 b7 #2	
3		3
b7 #2	1	
b5	3	b5

7

641

3		b5
1	b7 #2	1
b5	3	
	1	
#2	b5 b7 #2	
3		3
b7 #2	1	
b5	3	b5

b5	3		b5
1	b7		
	b5	#2	
	1 3		
b7 #2		b7	
3		b5	
1	b7 #2	1	
b5	3		

1	1		1
1	1		
	2	2	
	3	3	
4	4		4
4	4		
		4	

1	1		
1	1		
	2	1	
	3	2	
4	4		3
4	4		
		4	

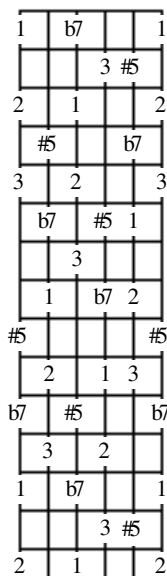
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2	2		
	3	3	
	4	4	
4	4		4
4	4		
		4	

1	1		
2	2		
	3	2	
	4	3	
4	4		4
4	4		
		4	

9#5 pentatonic scale

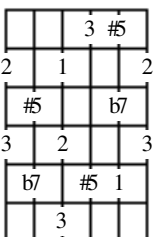
641 / 42

1



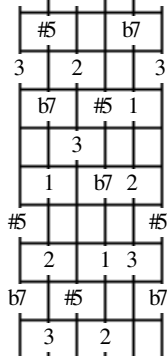
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b2



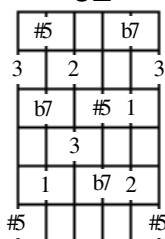
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2



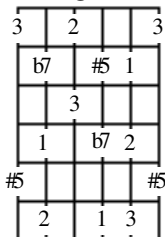
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b3



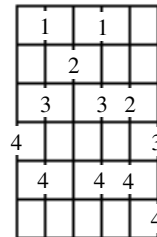
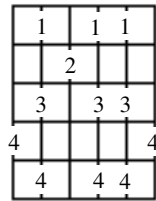
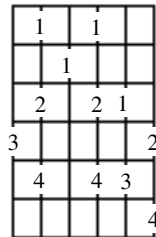
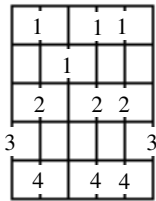
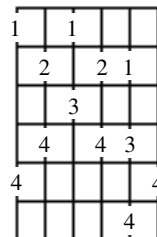
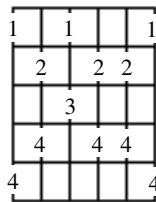
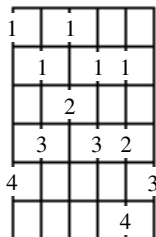
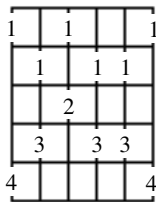
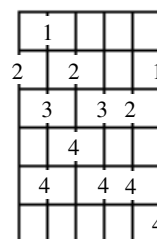
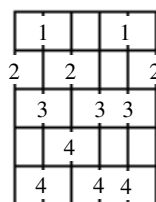
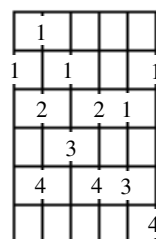
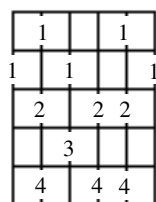
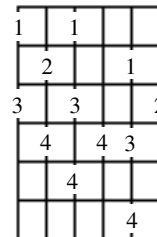
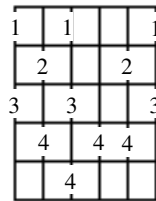
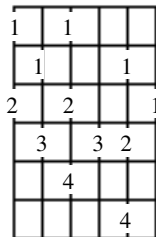
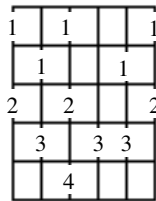
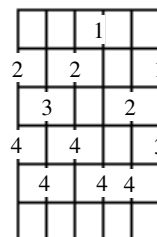
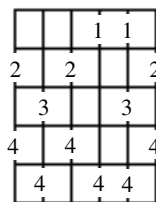
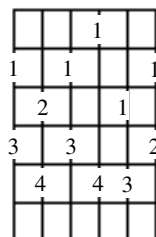
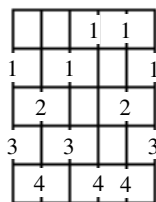
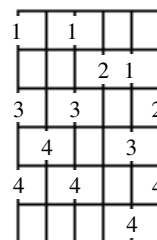
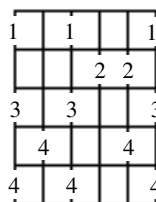
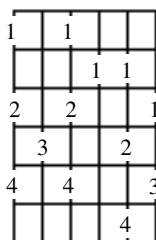
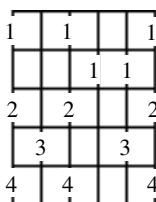
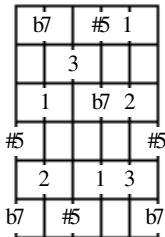
52

3



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4



		53																											
1	b7		1		3			1				1				1				1				1					
		3	#5	1		b7	2	1	1	1		1	1	1	2	2	2		2	2	1	2							
2	1		2	#5			#5	2			2	2			1	3			3	3			2	3					
	#5		b7	2	1	3		3	3	3		3	3	2	4	4	4		4	4	3	4				4			
3	2		3	b7	#5		b7	4	4		4	4	4		3	4	4		4	4	4		4	4	4		4		
	b7	#5	1	3	2																								
		3		1	b7	2		1	1	1		1	1		2			2	2			1	2						
#5			#5	2	1	3		2	2	2		2	2	1	3	3	3		3	3	2	3							
	2			b7	#5		b7	3	3		3	3	3	2	4	4		4	4	4		3	4	4					
	3	2		3	2			4	4			4	4		4	4			4	4		4	4						
1	b7		1	1	b7		1							4							4								
		3	#5																										
2	1		2																										
	#5		b7																										
3	2		3																										
	b7	#5	1																										
		3																											
1	b7		1																										
#5			#5																										
	2																												
b7	#5		b7																										
	3	2																											

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1	b7		1		1	1		1				1				1				1						
		2	1	3	1	1	1	1	1	1		1	1	1	2	2	2		2	2	1	2				
#5			#5	2	2	2		2	2	1		2	2	1	3	3	3		3	3	2	3				
	2			3	3		3	3	3		2	3	3		4	4		4	4	4		3	4	4		
	3	2		4	4			4	4			4	4		4	4			4	4		4	4			
1	b7		1																							

		631																								
1	b7		1		1	1		1				1				1				1						
		2	1	3	1	1	1	1	1	1		1	1	1	2	2	2		2	2	1	2				
#5			#5	2	2	2		2	2	1		2	2	1	3	3	3		3	3	2	3				
	2			3	3		3	3	3		2	3	3		4	4		4	4	4		3	4	4		
	3	2		4	4			4	4			4	4		4	4			4	4		4	4			
1	b7		1																							
#5			#5																							
	2																									
b7	#5		b7																							
	3	2																								

		631																								
1	b7		1		1	1		1				1				1				1						
		2	1	3	1	1	1	1	1	1		1	1	1	2	2	2		2	2	1	2				
#5			#5	2	2	2		2	2	1		2	2	1	3	3	3		3	3	2	3				
	2			3	3		3	3	3		2	3	3		4	4		4	4	4		3	4	4		
	3	#5		4	4			4	4			4	4		4	4			4	4		4	4			
2	1		2																							

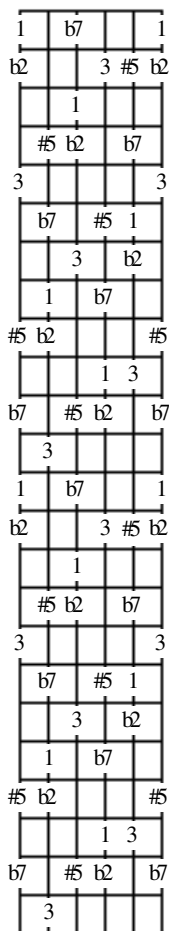
		641																								
1	b7		1		1	1		1				1				1				1						
		3	2		1	1		1	1			1	1		2	2			2	2		2				
#5			#5	2	2			2	2	1		2	2	1	3	3			3	3		3				
	2			3	3		3	3	3		2	3	3		4	4		4	4	4		3	4	4		
	3	#5		4	4			4	4			4	4		4	4			4	4		4	4			
2	1		2																							
#5			b7																							
	3	2																								

		641																								
1	b7		1		1	1		1				1				1				1						
		3	#5	1	1			1	1			1	1		2	2			2	2		2				
#5			b7	2	2			2	2	1		2	2	1	3	3			3	3		3				
	2			3	3		3	3	3		2	3	3		4	4		4	4	4		3	4	4		
	3	2		4	4			4	4			4	4		4	4			4	4		4	4			
3	2		3																							

7#5b9 pentatonic scale

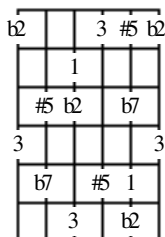
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1



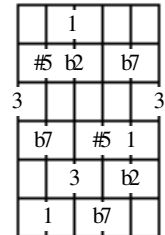
42

b2



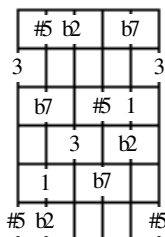
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2



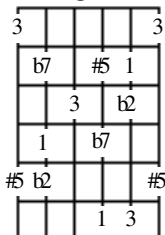
52

b3



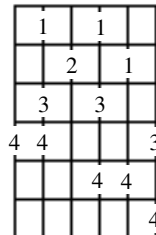
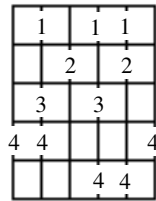
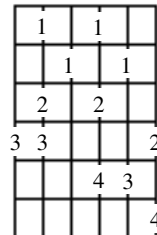
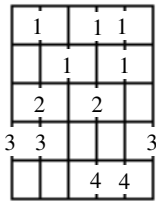
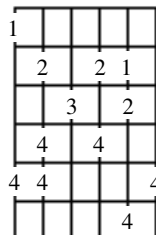
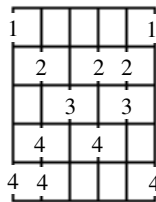
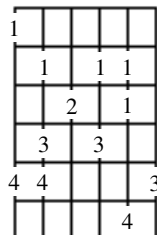
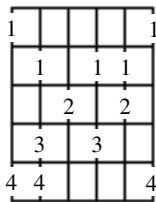
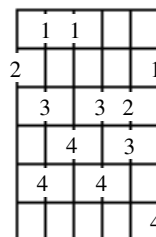
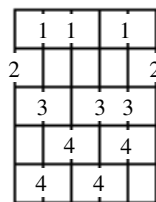
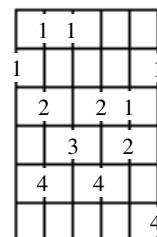
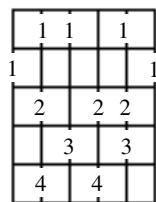
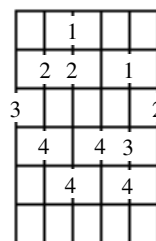
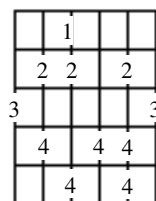
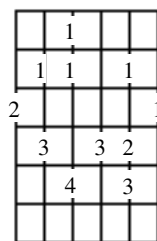
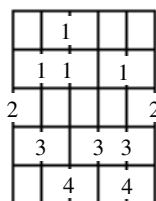
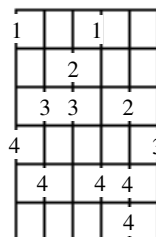
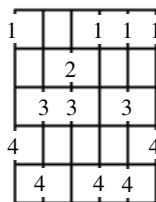
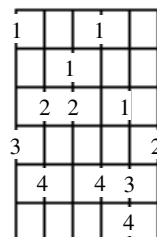
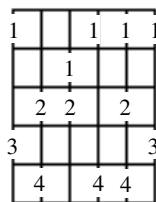
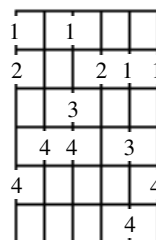
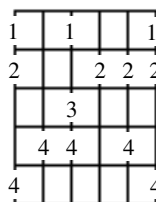
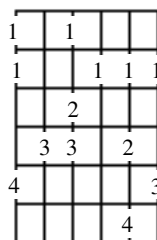
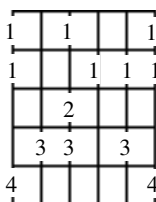
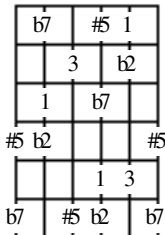
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3



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4



53

1	b7		1
b2		3 #5	b2
	1		
#5	b2		b7
3			3
b7	#5	1	
	3	b2	
1	b7		
#5	b2		#5
		1 3	
b7	#5	b2	b7
	3		
1	b7		1
b2		3 #5	b2
	1		
#5	b2		b7
3			3
b7	#5	1	
	3	b2	
1	b7		
#5	b2		#5
		1 3	
b7	#5	b2	b7
	3		

b5

	3	b2	
1	b7		
#5	b2		#5
		1 3	
b7	#5	b2	b7
	3		

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1	b7		
#5	b2		#5
		1 3	
b7	#5	b2	b7
	3		
1	b7		1

631

#5	b2		#5
		1 3	
b7	#5	b2	b7
	3		
1	b7		1
b2		3 #5	b2

631

		1 3	
b7	#5	b2	b7
	3		
1	b7		1
b2		3 #5	b2
	1		

641

b7	#5	b2	b7
	3		
1	b7		1
b2		3 #5	b2
	1		
#5	b2		b7

641

		3	
1	b7		1
b2		3 #5	b2
	1		
#5	b2		b7
3			3

5

1	b7		
#5	b2		#5
		1 3	
b7	#5	b2	b7
	3		
1	b7		1
b2		3 #5	b2
	1		
#5	b2		#5
		1 3	
b7	#5	b2	b7
	3		
1	b7		1
b2		3 #5	b2
	1		
#5	b2		#5
		1 3	
b7	#5	b2	b7
	3		

b6

		1 3	
b7	#5	b2	b7
	3		
1	b7		1
b2		3 #5	b2

6

		1 3	
b7	#5	b2	b7
	3		
1	b7		1
b2		3 #5	b2
	1		

b7

b7	#5	b2	b7
	3		
1	b7		1
b2		3 #5	b2
	1		
#5	b2		b7

7

		3	
1	b7		1
b2		3 #5	b2
	1		
#5	b2		b7
3			3

	1		1
1		1	
2	2		2
		3	3
4	4	4	4

	1		
1		1	
2	2		1
		3	2
4	4	4	3

	1		
1		1	
2	2		
		3	2
4	4	4	4

	1	1	
2	2		2
3	3		3
		4	4
4	4	4	4

	1		
1		1	
2	2		1
		3	2
4	4	4	3

	1		
1		1	
2	2		2
3	3		3
4	4		4

	1		
1		1	
2	2		2
3	3		3
4	4		4

	1		
1		1	
2	2		2
3	3		3
4	4		4

	1	1	
2	2		2
3	3		3
		4	4
4	4	4	4

	1		
1		1	
2	2		2
3	3		3
4	4		4

	1		
1		1	
2	2		2
3	3		3
4	4		4

	1		
1		1	
2	2		2
3	3		3
4	4		4

	1		
1		1	
2	2		2
3	3		3
4	4		4

	1	1	
2	2		2
3	3		3
		4	4
4	4	4	4

	1		
1		1	
2	2		2
3	3		3
4	4		4

	1		
1		1	
2	2		2
3	3		3
4	4		4

	1		
1		1	
2	2		2
3	3		3
4	4		4

	1		
1		1	
2	2		2
3	3		3
4	4		4

	1	1	
2	2		2
3	3		3
		4	4
4	4	4	4

	1		
1		1	
2	2		2
3	3		3
4	4		4

7#5#9 pentatonic scale

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Diagram 10: A 4x4 grid with a 2x2 subgrid highlighted in red. The grid contains the following numbers:

1	b7 #2		1
		3 #5	
	1		
#2 #5		b7 #2	
3			3
b7 #2 #5	1		
	3		
1	b7		
#5		#2 #5	
		1 3	
b7 #2 #5			b7
	3		
1	b7 #2		1
		3 #5	
	1		
#2 #5		b7 #2	
3			3
b7 #2 #5	1		
	3		
1	b7		
#5		#2 #5	
		1 3	
b7 #2 #5			b7
	3		

1

1	b7	#2	1
		3	#5
	1		
#2	#5		b7 #2
3			3
	b7	#5	1

A 4x4 grid with numbers at the corners and midpoints of the edges:

1		1	1	1
			1	1
	2			
3	3			3
4				4

1		1	1		
			1	1	
		2			
3	3			2	2
4					3
				4	

1	1	1	1
		2	2
	3		
4	4		4
4			4

1		1	1		
			2	1	
		3			
4	4			3	2
4					4
				4	

42

A 4x4 grid with numbers indicating the count of squares in each row and column. The top row has two 1s in the third and fourth columns. The second row has one 1 in the second column. The third row has two 2s in the first and second columns, and two 2s in the third and fourth columns. The bottom row has four 4s in all four columns. On the left side, there are two 2s for the first and second rows, and two 3s for the third and fourth rows. On the right side, there are two 3s for the third and fourth rows.

		1	
	1		
2	2		1 1
3			2
	4	4	4 3

		1	1
	2		
3	3		3
4			4
	4	4	4

		1	
	2		
3	3		2 2
4			
	4	4	4 4

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	1		
#2	#5		b7 #2
3			3
b7 #2	#5	1	
	3		
1		b7	

	1		
1	1		1
2			2
	3	3	3
		4	

		1		
1	1			1
2				
	3	3	3	2
		4		

		1		
2	2		2	2
3				3
	4	4	4	4
		4		

		1		
2	2			1
3				2
	4	4	4	3
		4		

52

#2	#5		b7	#2
3				3
	b7	#2	#5	1
		3		
	1		b7	
#5				#2

1	1		1	1
1				1
	2	2	2	2
		3		
	4		4	

1	1			
1				
	2	2	2	1
		3		
	4		4	
				4

1	1			1	1
2					2
	3	3	3	3	
		4			
	4		4		

1	1			
2				1
	3	3	3	2
		4		
	4		4	
				4
				4

52

1				
	1	1	1	1
		2		
	3		3	
4				
			3	3
			4	

A 5x5 grid with numbers at the intersections. The numbers are: 1 at (1,1), (1,5), (4,1), (4,5); 2 at (2,2), (2,3), (2,4); 3 at (3,3); 4 at (3,2), (3,4), (5,2), (5,4).

1				
	2	2	2	1
		3		
	4		4	
4				4

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b7	#2	#5	1
	3		
1		b7	
#5			#2 #5
		1	3
b7 #2 #5			b7

	1	1	1	1
		1		
	2		2	
3				3 3
			4	4

	1	1	1		
		1			
	2		2		
3				2	2
			4	3	
					4

	1	1	1	1
		2		
	3		3	
4				4 4
			4 4	

	1	1	1	
		2		
	3		3	
4				3
			4	4
				4

4

53

1	b7	#2	1
		3	#5
	1		
#2	#5		b7
3			3
	b7	#2	#5
	3		
1	b7		
#5		#2	#5
		1	3
b7	#2	#5	b7
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		3	#5
	1		
#2	#5		b7
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	b7	#2	#5
	3		
1	b7		
#5		#2	#5
		1	3
b7	#2	#5	b7
	3		

b5

	3		
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		1	3
b7	#2	#5	b7
	3		

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4	4	4	3
			4

5

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		1	3
b7	#2	#5	b7
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1	b7	#2	1
		3	#5
	1		
#2	#5		b7
3			3
	b7	#2	#5
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		3	#5
	1		
#2	#5		b7
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	b7	#2	#5
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#5		#2	#5
		1	3
b7	#2	#5	b7
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631

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		3	#5
	1		

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3	3	3	2
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4	4	4	4

6

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b7	#2	#5	b7
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1	b7	#2	1
		3	#5
	1		

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		4	4

641

b7	#2	#5	b7
	3		
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	1		
#2	#5		b7

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		4	3
4			

b7

b7	#2	#5	b7
	3		
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	1		
#2	#5		b7

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		4	3
4			

641

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	1		
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7

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	1		
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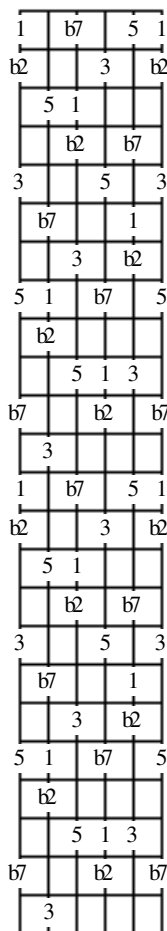
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7b9 pentatonic scale

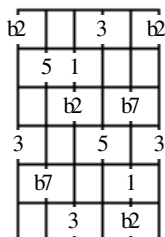
641 / 42

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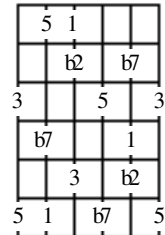
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b2



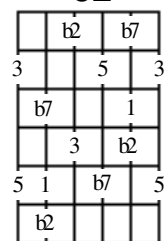
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2



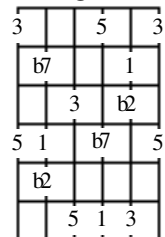
52

b3



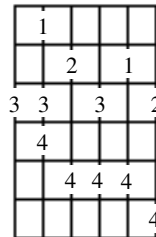
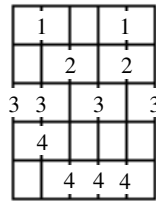
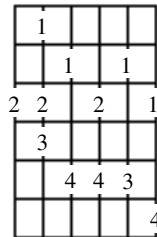
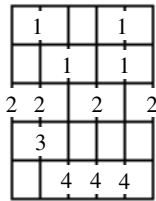
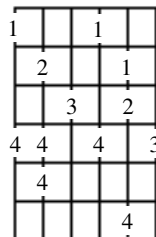
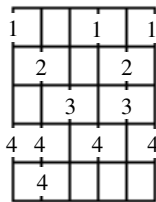
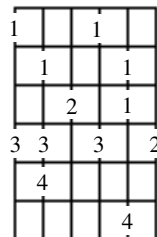
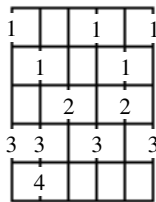
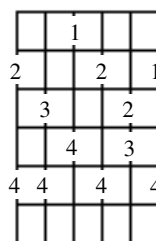
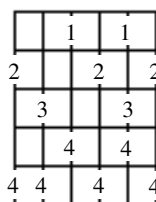
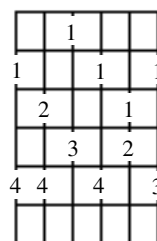
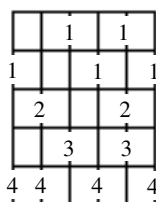
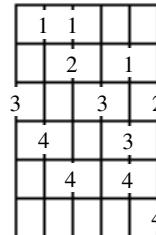
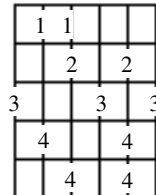
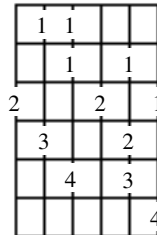
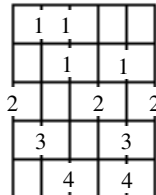
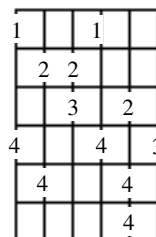
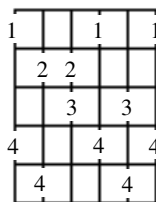
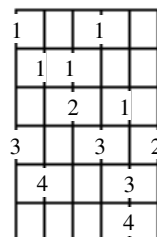
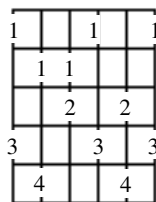
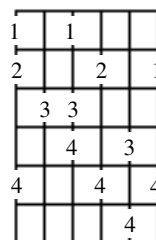
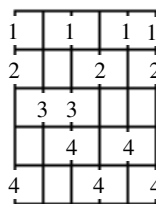
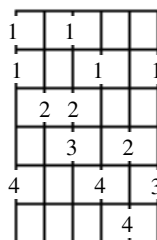
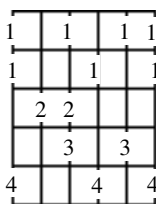
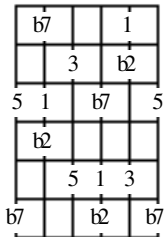
52

3



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4

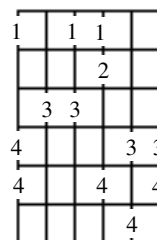
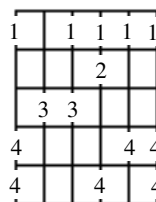
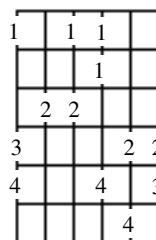
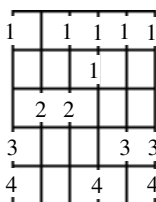
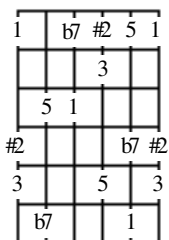
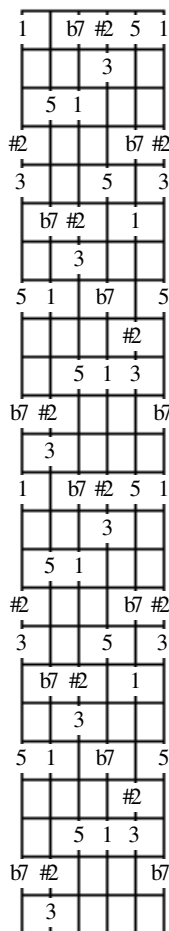


		53					
	b5						
		53 / 631					
	5						
		631					
	b6						
		631					
	6						
		641					
	b7						
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	7						

7#9 pentatonic scale

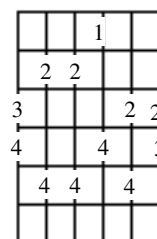
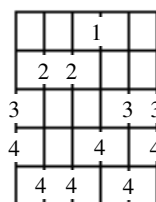
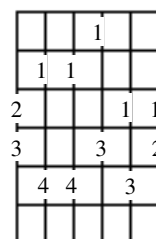
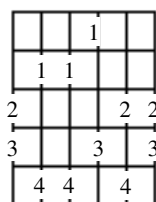
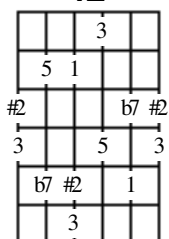
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1



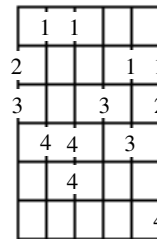
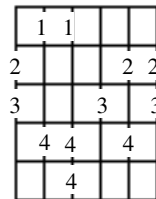
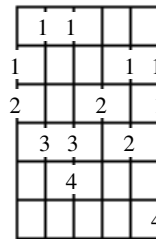
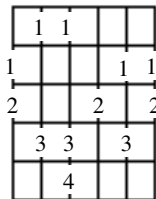
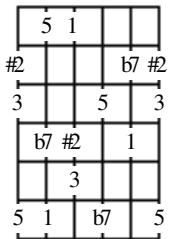
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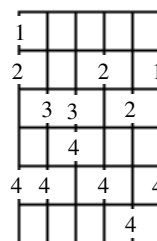
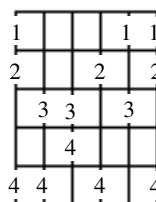
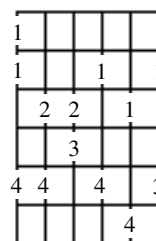
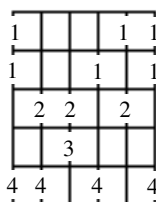
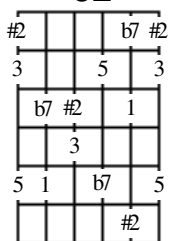
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2



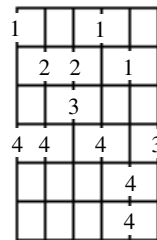
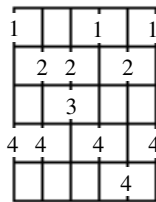
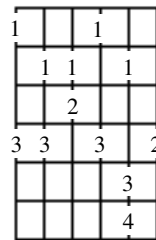
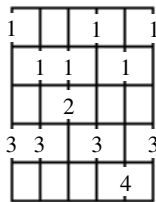
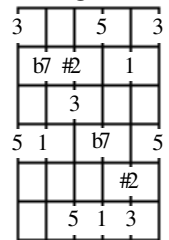
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b3



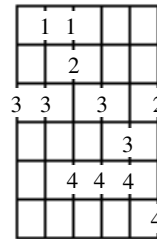
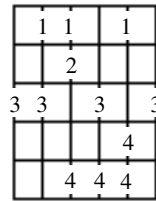
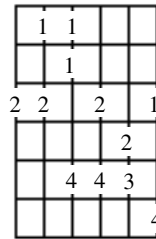
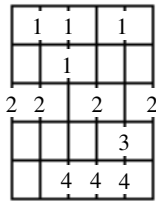
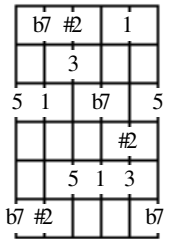
52

3



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4



53

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		3		
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5

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		3		
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b5

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		#2		
	5	1	3	
b7	#2			b7
	3			

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5	1	b7	5	
		#2		
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b7	#2			b7
	3			
1	b7	#2	5	1

631

		#2		
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b7	#2			b7
	3			
1	b7	#2	5	1

6

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b7	#2			b7
	3			
1	b7	#2	5	1
		3		
	5	1		

641

b7	#2			b7
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#2			b7	#2

7

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#2			b7	#2
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4	4			4

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4	4			4

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4				

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4	4			4

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7b9 sus. 4 pentatonic scale

641 / 42

1

42

b2

42 / 52

2

52

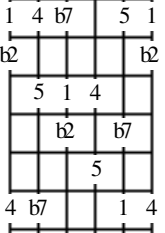
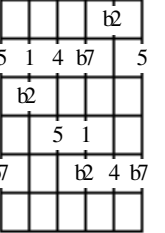
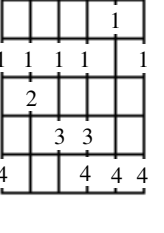
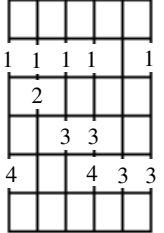
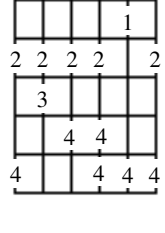
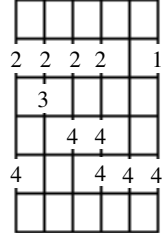
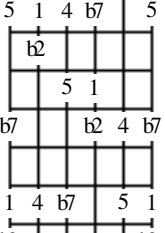
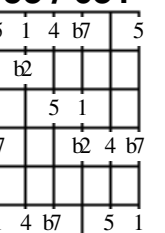
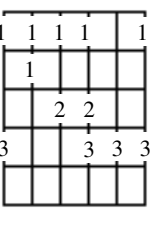
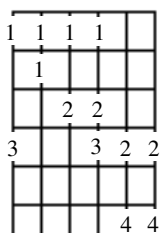
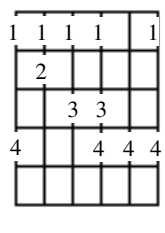
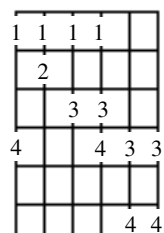
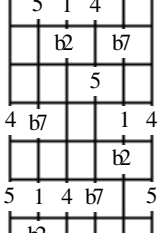
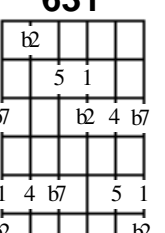
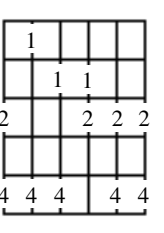
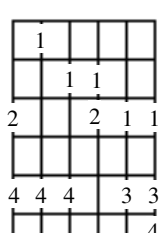
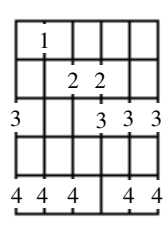
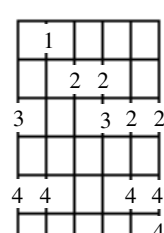
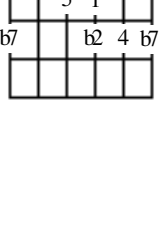
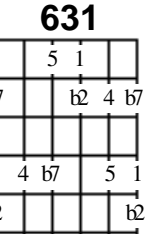
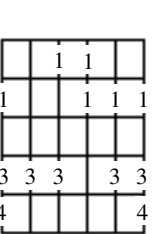
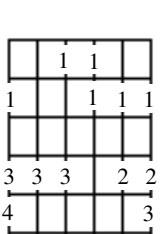
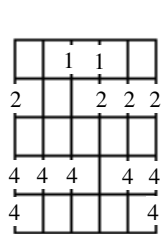
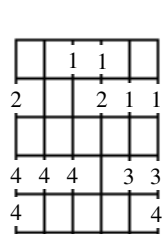

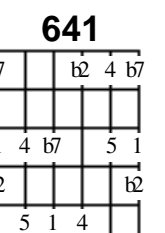
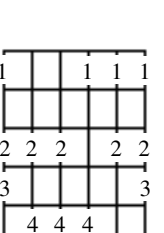
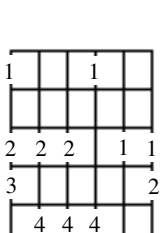
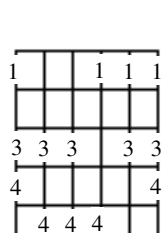
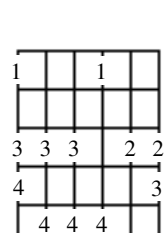

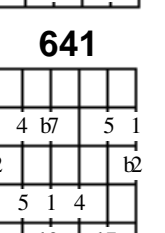
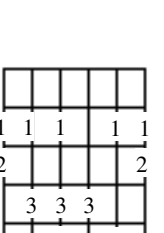
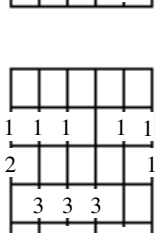
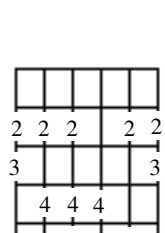
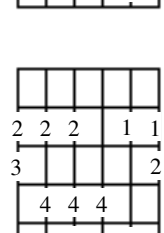
b3

52

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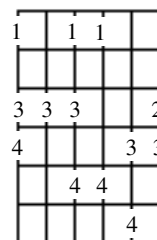
52 / 53

4

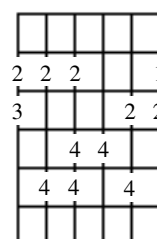
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	b5						
		53 / 631					
	5						
		631					
	b6						
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	6						
		641					
	b7						
		641					
	7						

641 / 42

1	b7	b3	5
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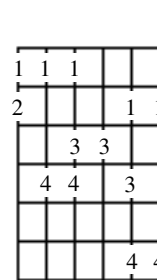


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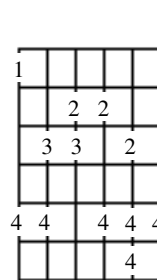


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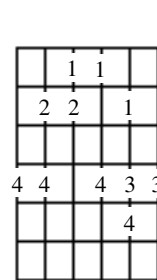
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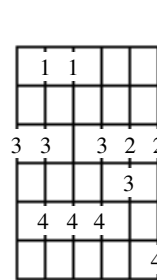
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$$\begin{array}{c} \text{---} \\ | \quad | \\ 2 \quad 5 \end{array}$$

1



b7	b3	1
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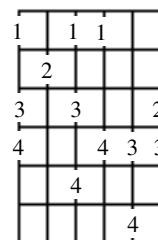
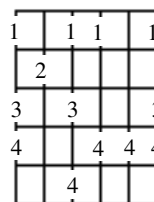
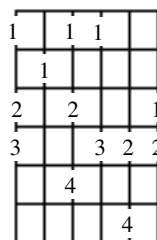
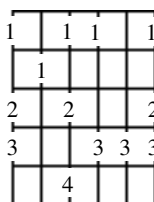
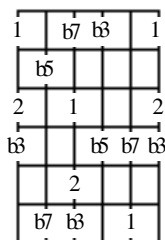
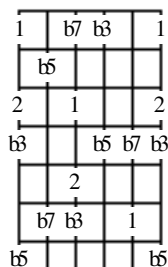


7

m9b5 pentatonic scale

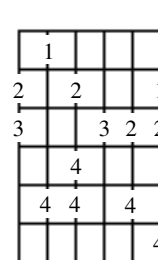
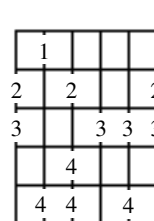
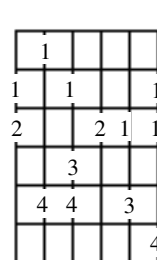
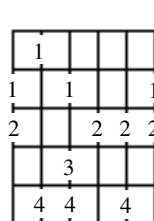
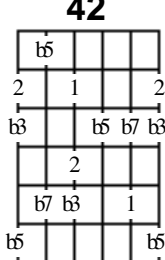
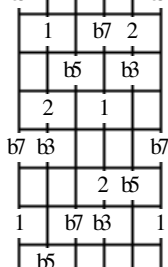
641 / 42

1



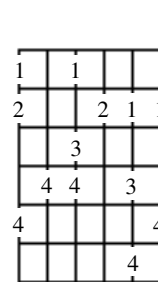
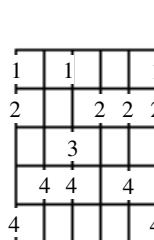
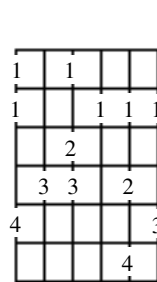
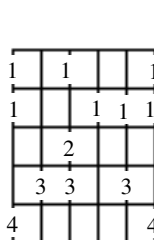
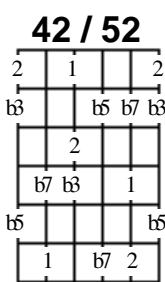
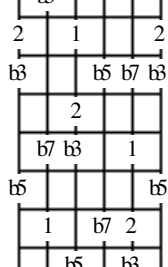
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b2



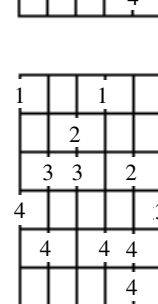
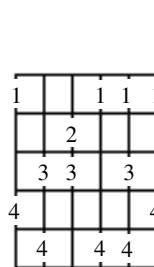
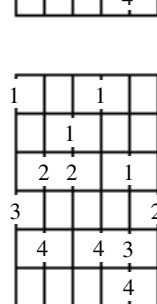
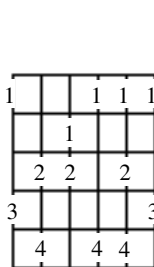
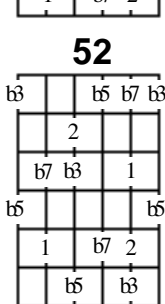
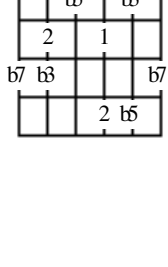
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2



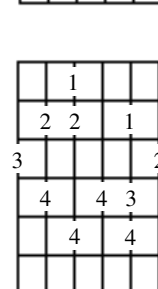
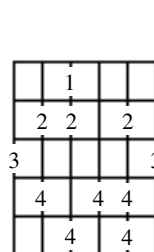
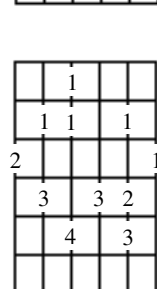
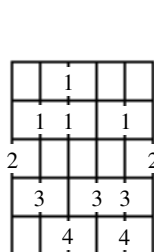
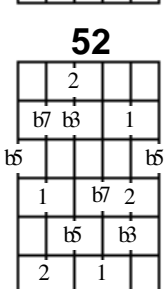
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b3



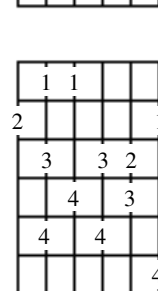
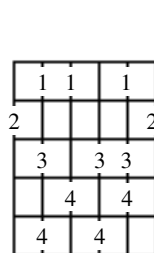
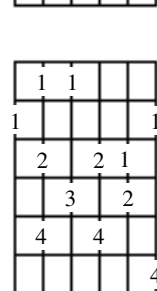
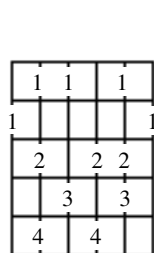
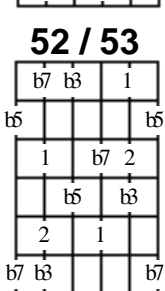
52

3



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4



b5

53

1	b7	b3	1
b5			
2	1		2
b3		b5	b7
	2		
b7	b3		1
b5			b5

5

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1	b7	2	
b5		b3	
2	1		
b7	b3		b7
		2	b5
1	b7	b3	1
b5			

b6

631

	b5	b3	
2	1		
b7	b3		b7
		2	b5
1	b7	b3	1
b5			

6

631

2	1		
b7	b3		b7
		2	b5
1	b7	b3	1
b5			
2	1		2

b7

641

b7	b3		b7
		2	b5
1	b7	b3	1
b5			
2	1		2
b3		b5	b7

7

641

		2	b5
1	b7	b3	1
b5			
2	1		2
b3		b5	b7
	2		

b5			b5
1	b7	2	
	b5	b3	
2	1		
b7	b3		b7
		2	b5
1	b7	b3	1

1			1
1	1	1	
	2	2	
3	3		
4	4		4

1			
1	1	1	
	2	1	
3	3		
4	4		3

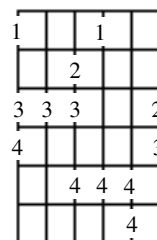
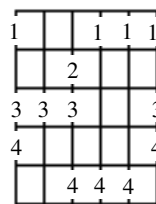
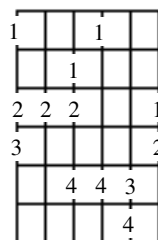
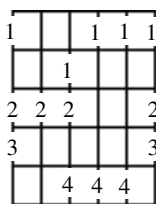
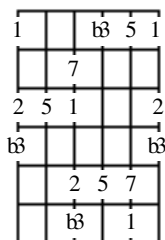
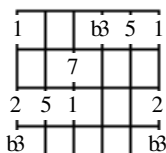
1			1
2	2	2	
	3	3	
4	4		4

1			
2	2	1	
	3	2	
4	4		4

m9 (natural 7) pentatonic scale

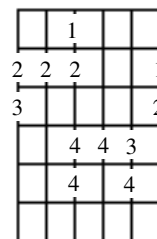
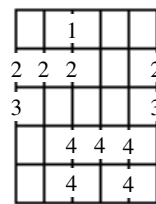
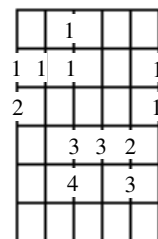
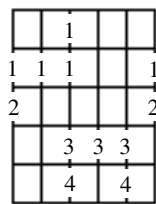
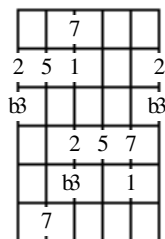
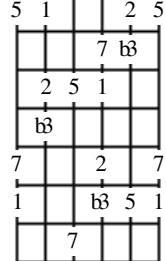
641 / 42

1



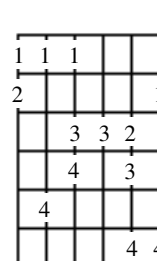
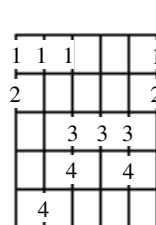
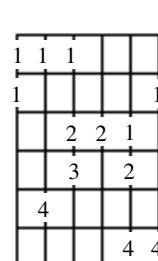
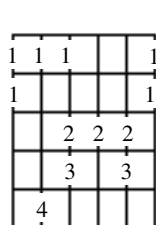
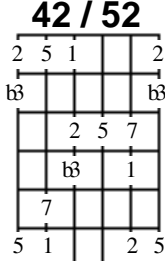
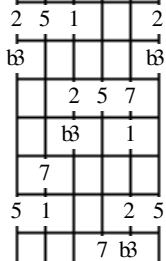
42

b2



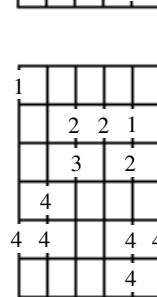
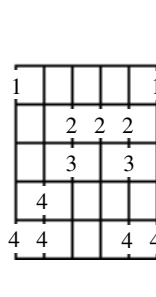
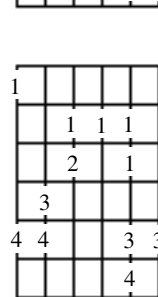
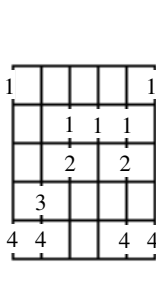
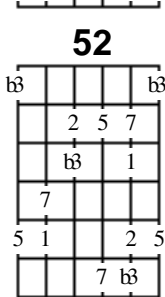
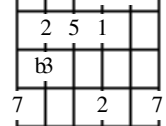
42 / 52

2



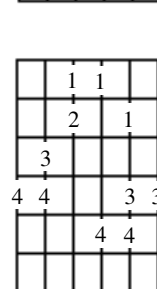
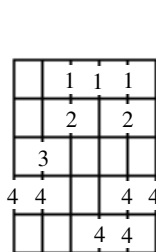
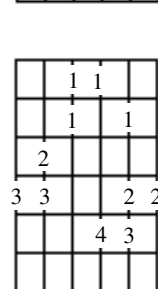
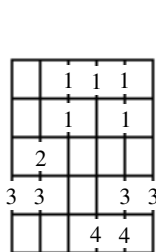
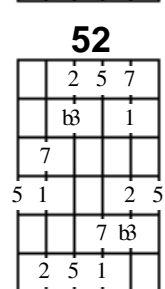
52

b3



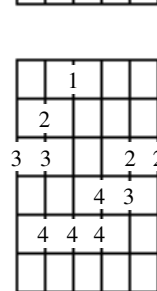
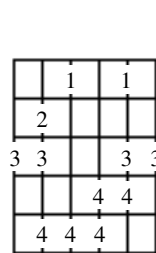
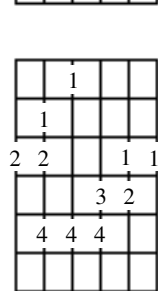
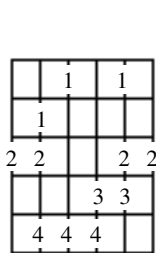
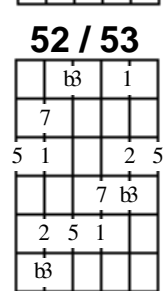
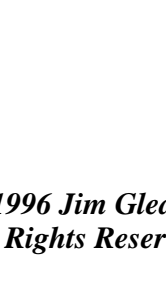
52

3



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4



		53					
	b5						
		53 / 631					
	5						
		631					
	b6						
		631					
	6						
		641					
	b7						
		641					
	7						

m9 (natural 7) b5 pentatonic scale

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1

1		b3	1
	b5	7	
2	1		2
b3		b5	b3

1		b3	1
	b5	7	
2	1		2
b3		b5	b3
	2	7	
	b3	1	

1		1	1
	1	1	
2	2		2
3		3	3
	4	4	

1		1	
	1	1	
2	2		1
3		3	2
	4	3	
		4	

1		1	1
	2	2	
3	3		3
4		4	4
	4	4	

1		1	
	2	2	
3	3		2
4		4	3
	4	4	
		4	

42

b2

	b5	7	
2	1		2
b3		b5	b3
	2	7	
	b3	1	
b5	7		b5

1	1		
	1	1	
2		2	2
	3	3	
	4	4	

1	1		
	1	1	
2		2	1
	3	2	
	4	3	
			4

1	1		
	1	1	
2	2		2
3		3	3
	4	4	
	4	4	

1	1		
	1	1	
2	2		1
3		3	2
	4	3	
	4	4	
			4

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2

2	1		2
b3		b5	b3
	2	7	
	b3	1	
b5	7		b5

2	1		2
b3		b5	b3
	2	7	
	b3	1	
b5	7		b5
	1		2

1	1		1
	1	1	
	2	2	
	3	3	
4	4		4

1	1		1
	1	1	
	2	1	
	3	2	
4	4		3
			4

1	1		1
	1	1	
2	2		2
	3	3	
4	4		4
4	4		4

1	1		
	1	1	
2	2		1
	3	2	
4	4		4
			4

52

b3

b3		b5	b3
	2	7	
	b3	1	
b5	7		b5
	1		2
	b5	7	b3

1		1	1
	1	1	
	2	2	
3	3		3
	4	4	

1		1	
	1	1	
	2	1	
3	3		2
	4	3	
			4

1		1	1
	2	2	
	3	3	
4	4		4
	4	4	

1		1	
	2	1	
	3	2	
4	4		3
	4	4	
			4

52

3

	2	7	
	b3	1	
b5	7		b5
	1		2
	b5	7	b3
2	1		

	1	1	
	1	1	
2	2		2
	3	3	
	4	4	4

	1		
	1	1	
2	2		1
	3	2	
	4	4	3

	1	1	
	2	2	
3	3		3
	4	4	
	4	4	4

	1		
	2	1	
3	3		2
	4	3	
	4	4	4

52 / 53

4

	b3	1	
b5	7		b5
	1		2
	b5	7	b3
2	1		
	b3		

	1	1	
1	1		1
	2		2
	3	3	3
4	4		

	1		
1	1		1
	2		1
	3	3	2
4	4		

	1	1	
2	2		2
	3		3
	4	4	4
4	4		

	1		
2	2		1
	3		2
	4	4	3
4	4		

b5

53

1		b3	1
b5	7		
2	1		2
b3		b5	b3
	2	7	
	b3	1	
b5	7		b5

5

53 / 631

1		2	
b5	7	b3	
2	1		
b3			
7		2	b5
1		b3	1
b5	7		

b6

631

	b5	7	b3
2	1		
b3			
7		2	b5
1		b3	1
b5	7		

6

631

2	1		
b3			
7		2	b5
1		b3	1
b5	7		
2	1		2

b7

641

b3			
7		2	b5
1		b3	1
b5	7		
2	1		2
b3		b5	b3

7

641

7		2	b5
1		b3	1
b5	7		
2	1		2
b3		b5	b3
	2	7	

1	1		1
1		1	
	2	2	2
3		3	
4			

1	1		
1		1	
	2	2	1
3		3	
4			

1	1		
1		1	
	2	2	1
3		3	
4			

1	1		1
2		2	
	3	3	3
4		4	
4			

1	1		
2		1	
	3	3	2
4		4	
			4

1		1	1
	1	1	
2		2	
3			
4		4	4

1		1	
	1	1	
2		2	
3			
4		4	3

1		1	1
	1	1	
2		2	2
3			
4		4	4

1		1	
	1	1	
2		2	
3			
4		4	4

1		1	
	1	1	
2		2	1
3			
4		4	3

1		1	1
	1	1	
2		2	2
3			
4		4	4

1		1	
	1	1	
2		2	1
3			
4		4	3

1		1	1
	1	1	
2		2	2
3			
4		4	4

1		1	
	1	1	
2		2	1
3			
4		4	4

1		1	
	1	1	
2		2	1
3			
4		4	3

1		1	1
	1	1	
2		2	2
3			
4		4	4

1		1	
	1	1	
2		2	1
3			
4		4	3

1		1	1
	1	1	
2		2	2
3			
4		4	4

1		1	
	1	1	
2		2	1
3			
4		4	3

1		1	
	1	1	
2		2	1
3			
4		4	4

Δ9 (major ninth) pentatonic scale

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1

42

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2

52

b3

52

3

52 / 53

4

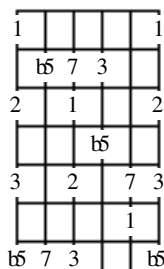
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		53					
	b5						
		53 / 631					
	5						
		631					
	b6						
		631					
	6						
		641					
	b7						
		641					
	7						

Δ9b5 pentatonic scale

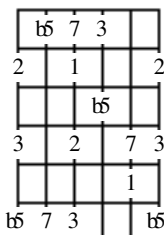
641 / 42

1



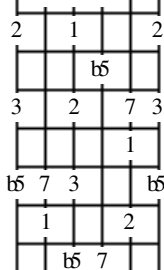
42

b2



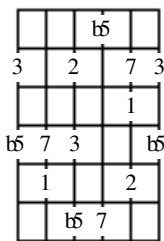
42 / 52

2



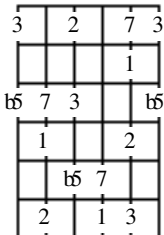
52

b3



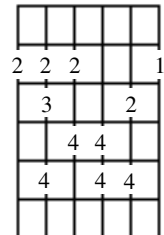
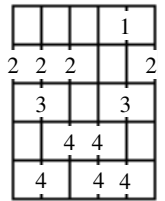
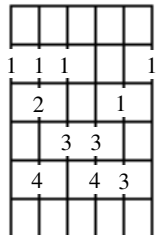
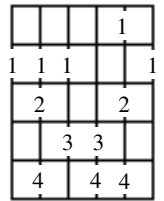
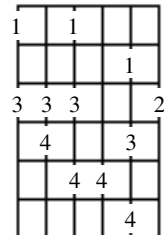
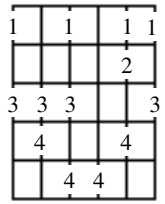
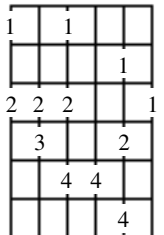
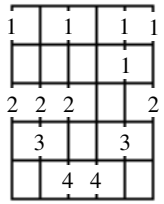
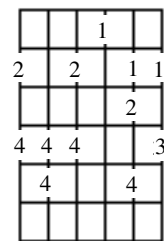
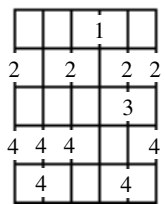
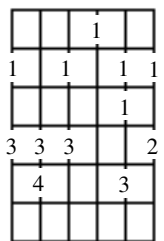
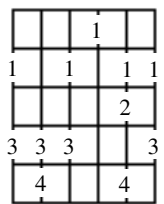
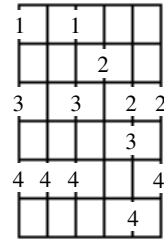
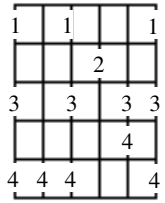
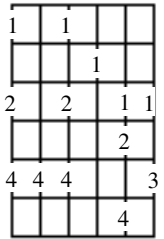
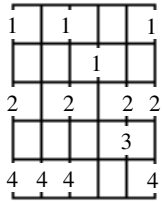
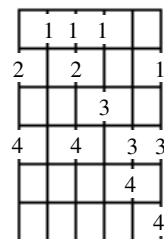
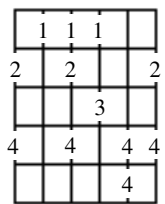
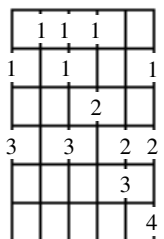
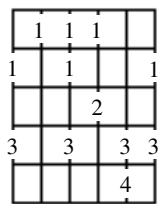
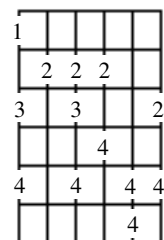
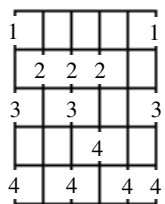
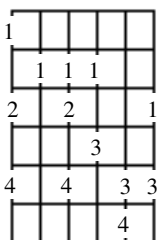
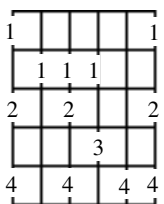
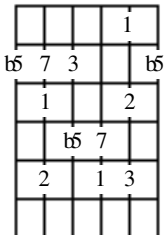
52

3



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4

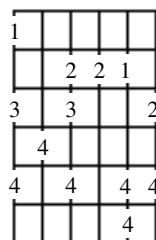
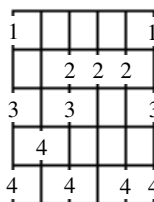
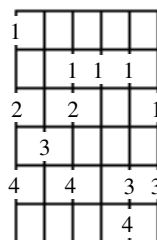
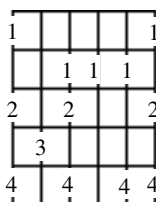
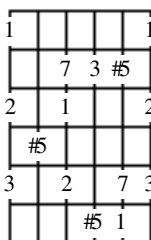
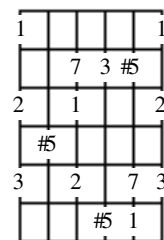


		53				
	b5					
		53 / 631				
	5					
		631				
	b6					
		631				
	6					
		641				
	b7					
		641				
	7					

$\Delta 9\#5$ pentatonic scale

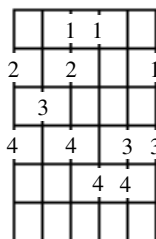
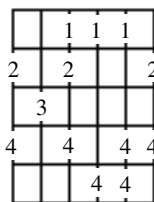
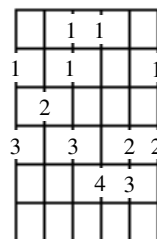
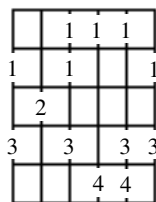
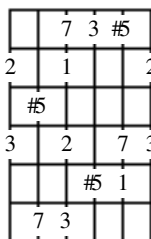
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1



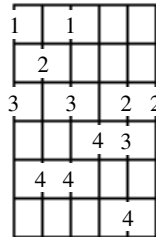
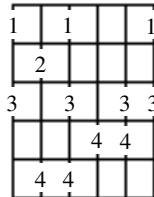
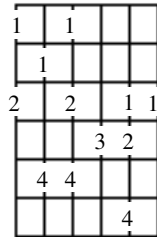
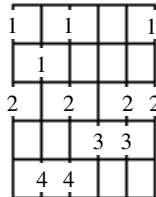
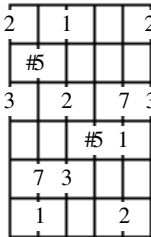
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b2



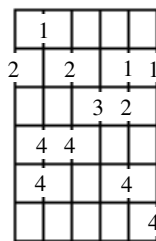
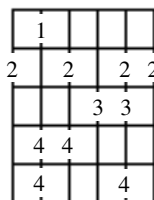
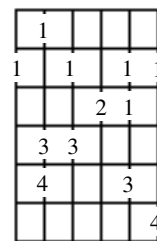
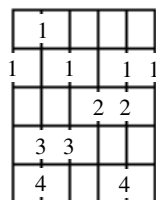
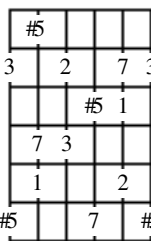
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2



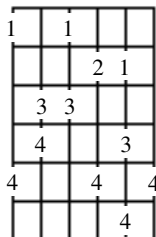
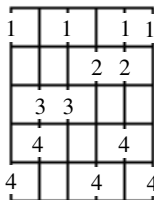
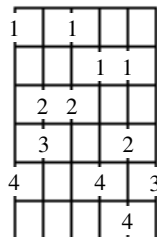
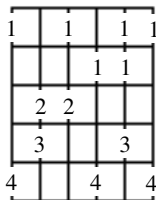
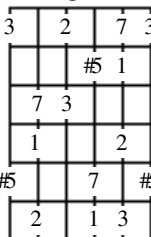
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b3



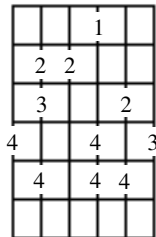
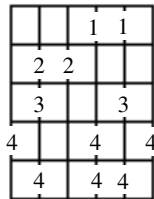
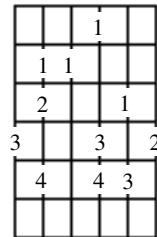
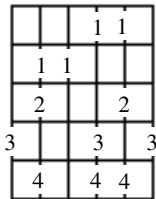
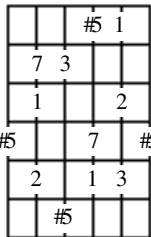
52

3



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4

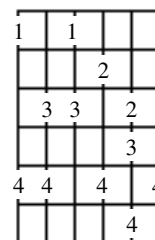
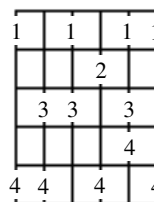
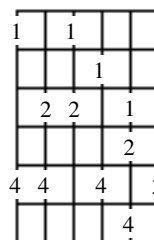
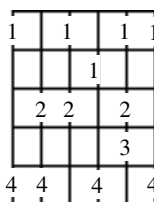
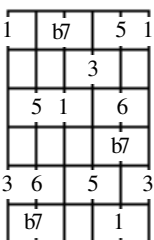
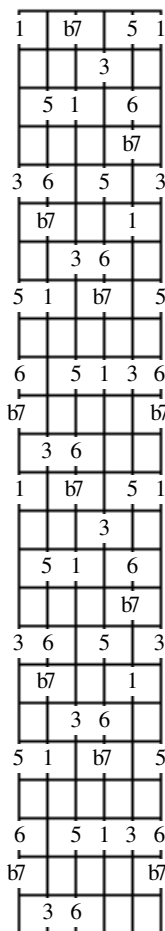


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dominant 7/6 pentatonic scale

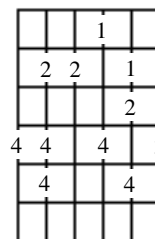
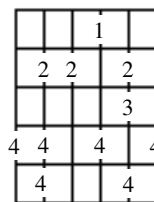
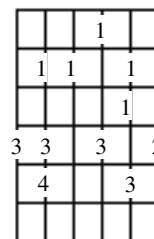
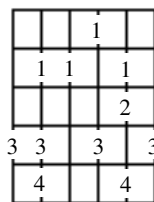
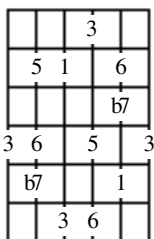
641 / 42

1



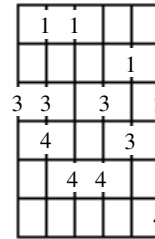
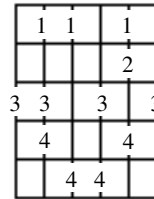
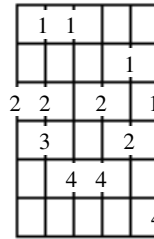
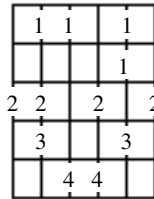
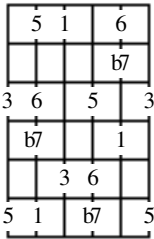
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b2



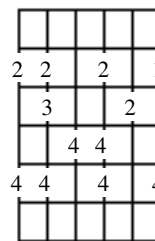
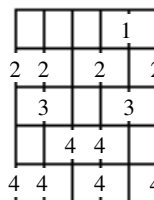
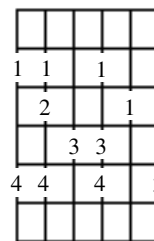
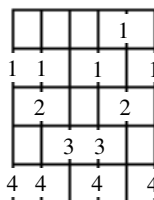
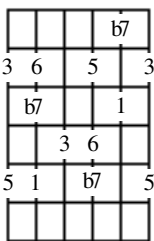
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2



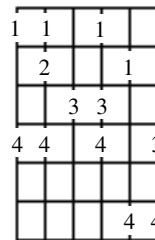
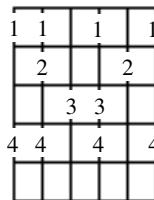
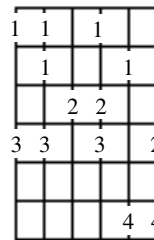
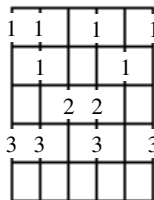
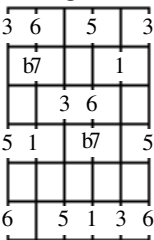
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b3



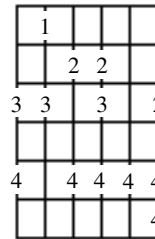
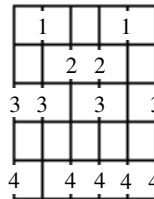
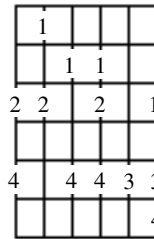
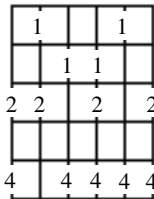
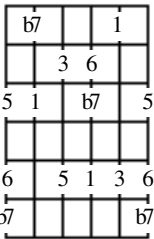
52

3



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4

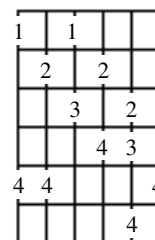
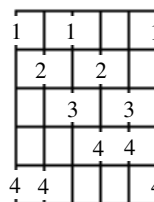
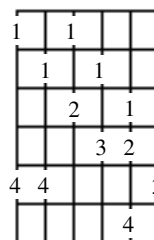
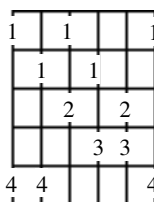
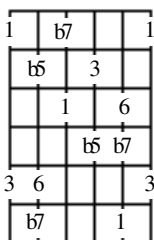
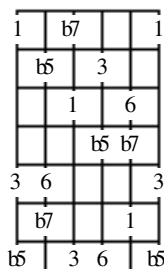


	b5	53 				
		5	53 / 631 			
	b6		631 			
		6	631 			
	b7		641 			
		7	641 			

7/6b5 pentatonic scale

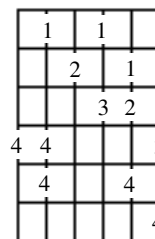
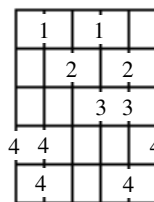
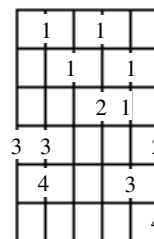
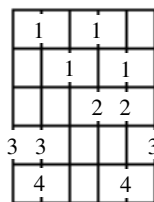
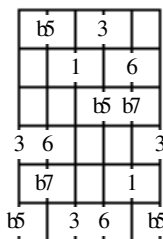
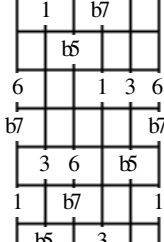
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1



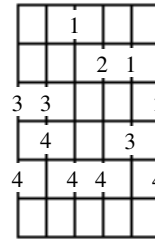
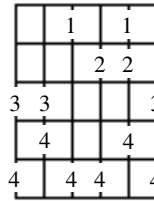
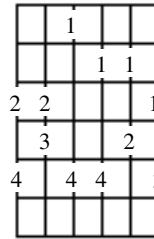
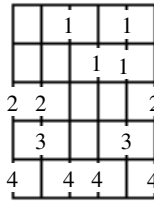
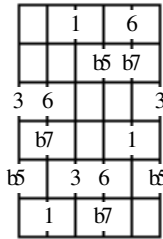
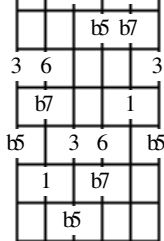
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b2



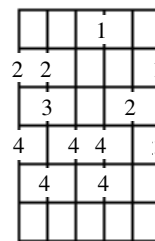
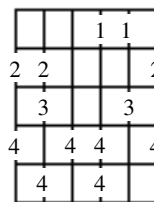
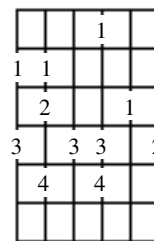
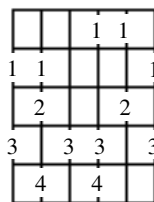
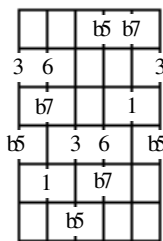
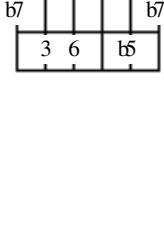
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2



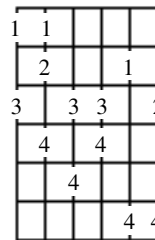
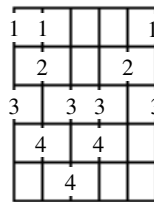
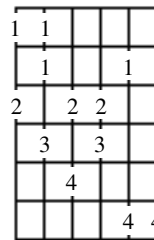
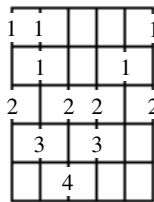
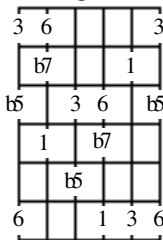
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b3



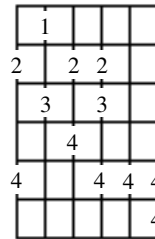
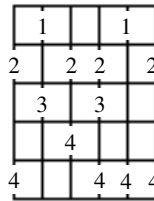
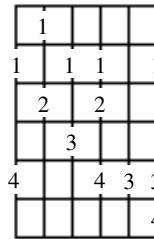
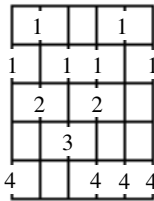
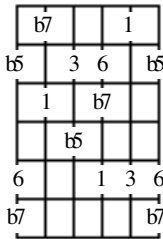
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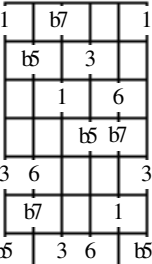
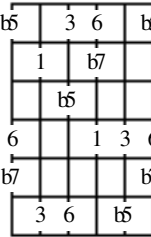
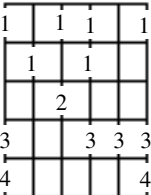
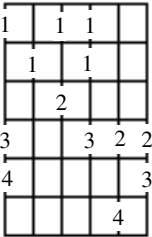
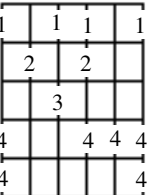
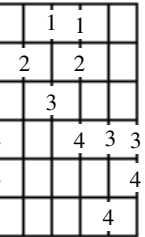
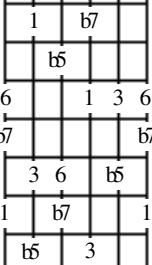
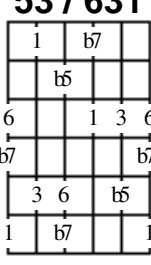
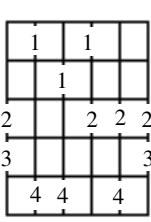
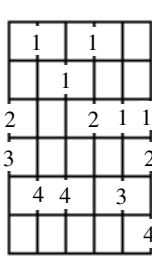
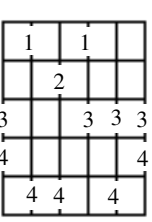
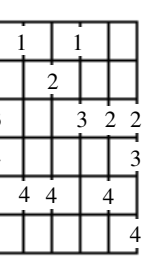
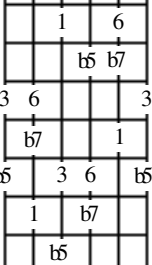
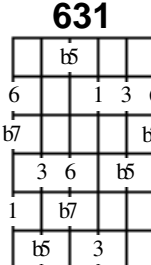
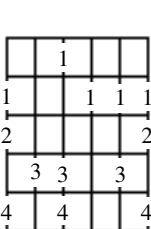
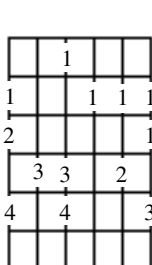
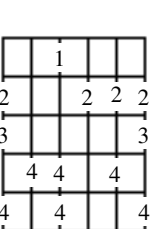
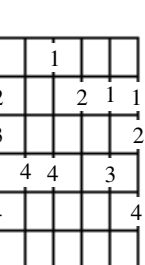
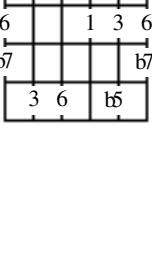
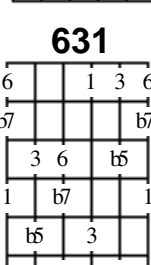
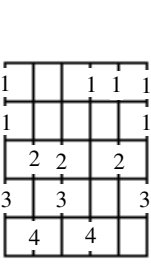
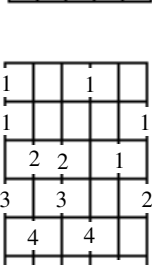
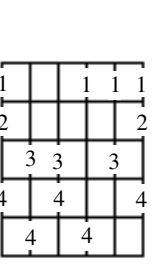
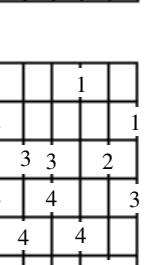

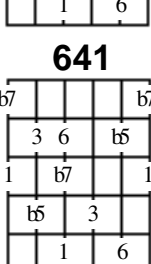
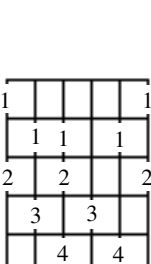
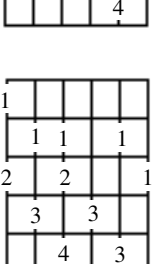
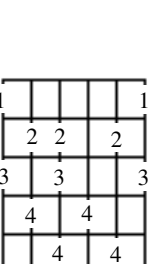
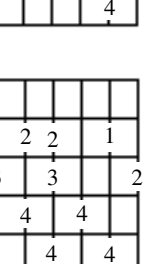

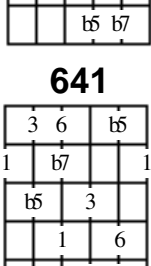
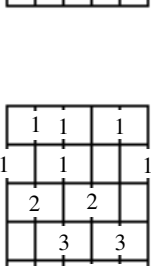
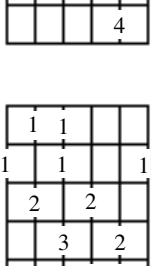
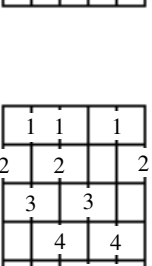
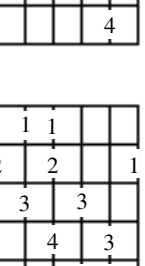
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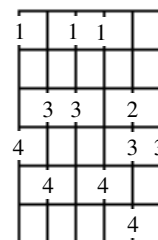
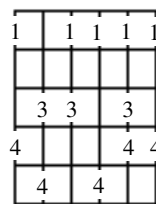
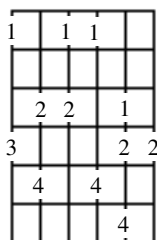
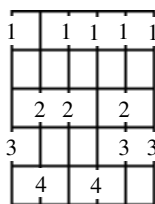
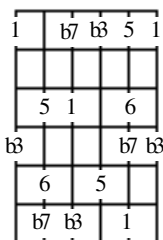
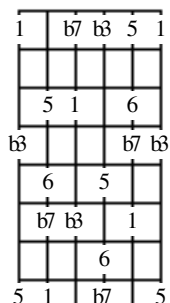


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	b5					
		53 / 631				
	5					
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	6					
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	7					

minor 7/6 pentatonic scale

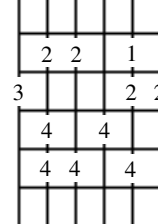
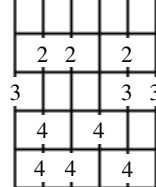
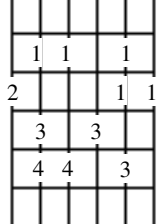
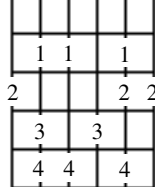
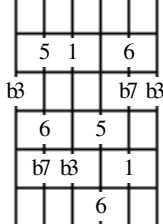
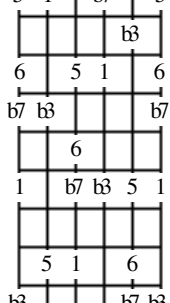
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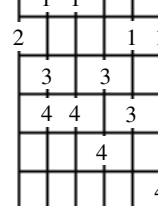
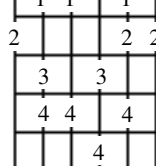
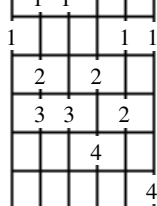
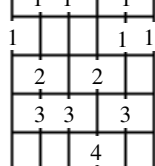
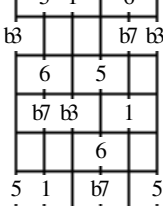
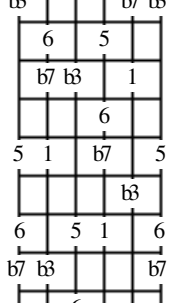
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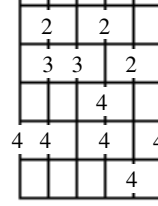
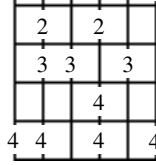
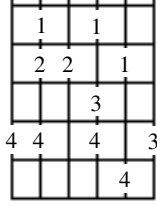
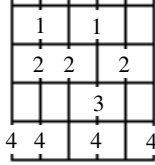
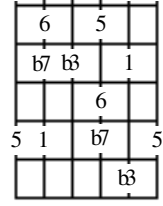
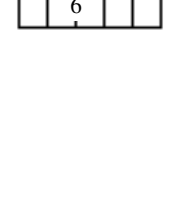
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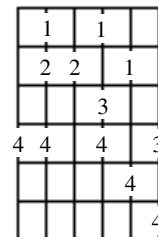
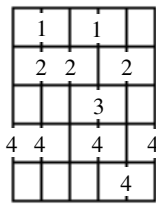
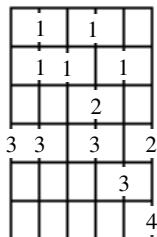
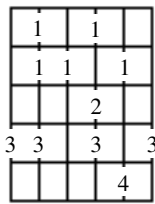
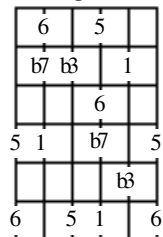
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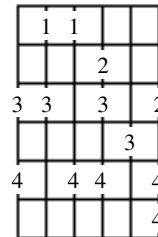
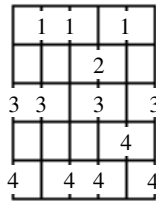
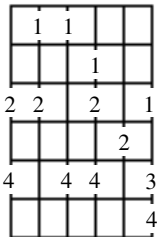
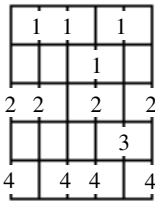
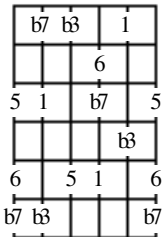
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4

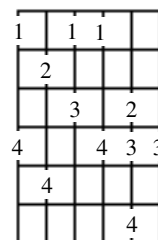
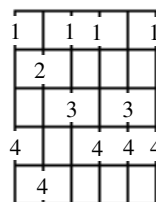
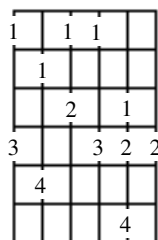
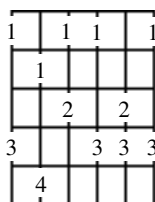
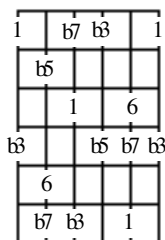
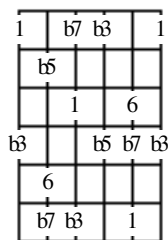


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	<p>53 / 631</p>	<p>5</p>	<p>5 1 b7 5</p> <p>b3</p> <p>6 5 1 6</p> <p>b7 b3 b7</p> <p>6</p> <p>1 b7 b3 5 1</p>	<p>1 1 1 1</p> <p>1</p> <p>2 2 2 2</p> <p>3 3 3 3</p> <p>4</p>	<p>1 1 1 1</p> <p>1</p> <p>2 2 2 1</p> <p>3 3 2</p> <p>4 4 4 4</p>	<p>1 1 1 1</p> <p>2</p> <p>3 3 3 3</p> <p>4 4 4 4</p> <p>4</p>	<p>1 1 1 1</p> <p>1</p> <p>3 3 3 2</p> <p>4 4 3</p> <p>4 4 4 4</p>
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	<p>641</p>	<p>7</p>	<p>6</p> <p>1 b7 b3 5 1</p> <p>5 1 6</p> <p>b3 b7 b3</p> <p>6 5</p>	<p>1 1 1 1</p> <p>3 3 3 3</p> <p>4 4 4 4</p>	<p>1 1 1 1</p> <p>3 3 2</p> <p>4 3 3</p>	<p>1 1 1 1</p> <p>4 4 4 4</p> <p>4 4 4 4</p>	<p>1 1 1 1</p> <p>4 4 3</p> <p>4 4 4 4</p>

minor 7/6b5 pentatonic scale

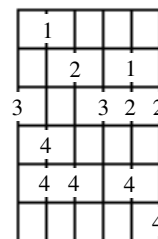
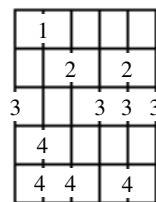
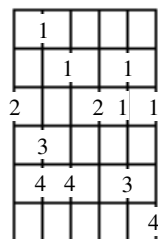
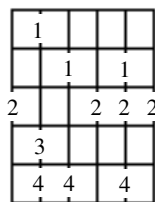
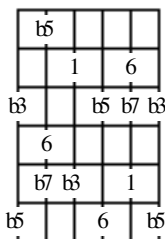
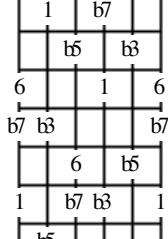
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1



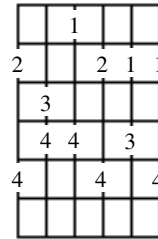
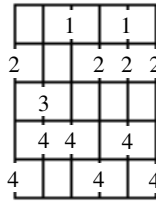
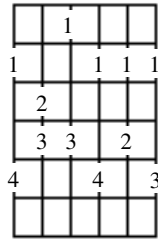
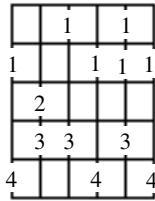
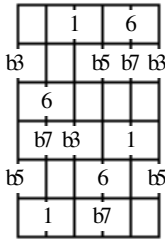
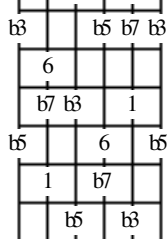
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b2



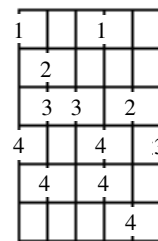
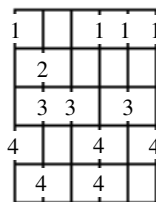
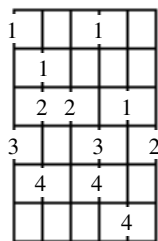
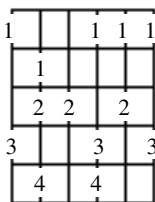
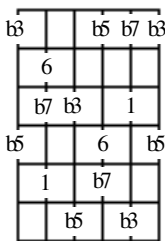
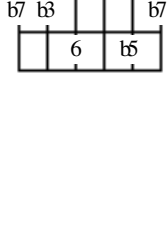
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2



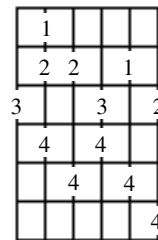
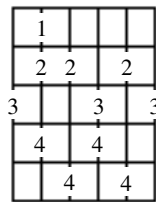
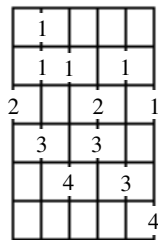
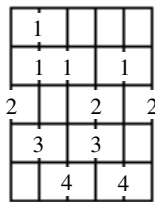
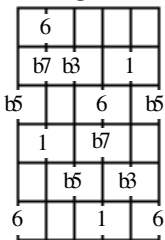
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b3



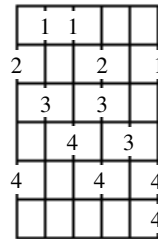
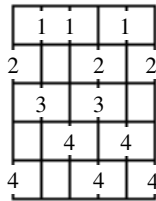
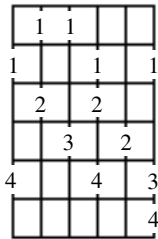
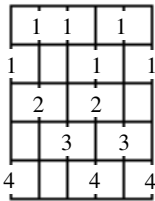
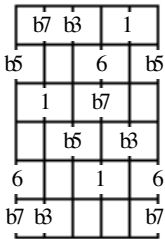
52

3



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4



		53																		
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	b5			1	b7			1	1		1	1		2	2		2	2		
		1	6	b5	b3			2	2	1	2	1		3	3		3	2		
b3		b5	b7	b3	6	1	6	3	3	3	3	3	2	4	4	4	4	4	3	
	6			b7	b3		b7	4	4		4	4	3	4	4	4	4	4	4	
	b7	b3	1		6	b5				4									4	
b5		6	b5																	
	1	b7		53 / 631	1	b7		1	1		1	1		1	1		1	1		
	b5	b3			b5	b3		1	1		1	1		2	2		2	1		
6		1	6	6	1	6	6	2	2	2	2	2	1	3	3	3	3	3	2	
b7	b3		b7	b7	b3		b7	3	3		3	3	2	4	4	4	4	4	3	
	6	b5			6	b5			4	4		4	3		4	4		4		
1	b7	b3	1	1	b7	b3	1						4						4	
	b5																			
	1	6		631		b5	b3		1	1		1			1	1		1		
b3		b5	b7	b3	6	1	6	1	1	1	1	1	1	2	2	2	2	2	1	
	6			b7	b3		b7	2	2		2	2	1	3	3		3	3	2	
	b7	b3	1		6	b5			3	3		3	2		4	4		4	3	
b5		6	b5	1	b7	b3	1	4	4	4	4	4	3	4	4	4	4	4	4	
	1	b7			b5															
	b5	b3																		
6		1	6	631	6	1	6	1	1	1	1	1		1	1	1	1	1		
b7	b3		b7	b7	b3		b7	1	1		1	1		2	2	2	2	2	1	
	6	b5			6	b5			2	2		2	1		3	3		3	2	
1	b7	b3	1	1	b7	b3	1	3	3	3	3	3	2	4	4	4	4	4	3	
	b5				b5				4			4			4			4		
	1	6			1	6							4						4	
6				641	b7	b3		1	1	1	1	1		1	1	1	1	1		
				b7	6	b5		1	1		1	1		2	2		2	2	1	
				1	b7	b3	1	2	2	2	2	2	1	3	3	3	3	3	2	
				b5					3			3			4			4		
				1	6				4	4		4	3		4	4		4	4	
				b3		b5	b7	b3			4	4						4		
				641		6	b5	1	1	1	1	1		1	1	1	1	1		
				b7	b7	b3	1	2	2		2	2		3	3		3	3		
				b5					2			2			3			3		
				1	6				3	3		3	2		4	4		4	3	
				b3		b5	b7	b3	4	4	4	4	4	3	4	4	4	4	4	4
				6																
				7				1	1	1	1	1	1	2	2	2	2	2	1	
					6	b5		2			2			3			3			
				b5					3	3		3	2		4	4		4	3	
				1	6				4	4		4	3		4	4		4	4	
				b3		b5	b7	b3	4	4	4	4	4	3	4	4	4	4	4	4
				6																

$\Delta 7/6$ pentatonic scale

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42

b2

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2

52

The figure consists of 12 diagrams arranged in a 3x4 grid. Each diagram is a 3x3 grid. The diagrams show the following patterns:

- Diagram 1 (top-left): A 3x3 grid with a 7 in the bottom-left cell and a 7 in the bottom-right cell. The rest of the grid is empty.
- Diagram 2 (top-middle-left): A 3x3 grid with a 3 in the top-left cell, a 6 in the top-middle cell, a 5 in the top-right cell, a 7 in the middle-left cell, and a 3 in the middle-right cell. The rest of the grid is empty.
- Diagram 3 (top-middle-right): A 3x3 grid with a 1 in the top-left cell, a 1 in the top-middle cell, a 1 in the top-right cell, a 1 in the middle-left cell, and a 1 in the middle-right cell. The rest of the grid is empty.
- Diagram 4 (top-right): A 3x3 grid with a 1 in the top-left cell, a 1 in the top-middle cell, a 1 in the top-right cell, a 1 in the middle-left cell, and a 1 in the middle-right cell. The rest of the grid is empty.
- Diagram 5 (top-far-right): A 3x3 grid with a 2 in the top-left cell, a 2 in the top-middle cell, a 2 in the top-right cell, a 2 in the middle-left cell, and a 2 in the middle-right cell. The rest of the grid is empty.
- Diagram 6 (top-far-far-right): A 3x3 grid with a 2 in the top-left cell, a 2 in the top-middle cell, a 2 in the top-right cell, a 1 in the middle-left cell, and a 1 in the middle-right cell. The rest of the grid is empty.
- Diagram 7 (middle-left): A 3x3 grid with a 7 in the top-left cell, a 3 in the top-middle cell, a 6 in the top-right cell, a 1 in the middle-left cell, and a 5 in the middle-right cell. The rest of the grid is empty.
- Diagram 8 (middle-middle-left): A 3x3 grid with a 3 in the top-left cell, a 3 in the top-middle cell, a 3 in the top-right cell, a 4 in the middle-left cell, and a 4 in the middle-right cell. The rest of the grid is empty.
- Diagram 9 (middle-middle-right): A 3x3 grid with a 3 in the top-left cell, a 3 in the top-middle cell, a 3 in the top-right cell, a 4 in the middle-left cell, and a 3 in the middle-right cell. The rest of the grid is empty.
- Diagram 10 (middle-right): A 3x3 grid with a 2 in the top-left cell, a 2 in the top-middle cell, a 2 in the top-right cell, a 4 in the middle-left cell, and a 4 in the middle-right cell. The rest of the grid is empty.
- Diagram 11 (middle-far-right): A 3x3 grid with a 2 in the top-left cell, a 2 in the top-middle cell, a 2 in the top-right cell, a 4 in the middle-left cell, and a 1 in the middle-right cell. The rest of the grid is empty.
- Diagram 12 (bottom-left): A 3x3 grid with a 7 in the top-left cell, a 3 in the top-middle cell, a 6 in the top-right cell, a 1 in the middle-left cell, and a 5 in the middle-right cell. The rest of the grid is empty.

52

3

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4

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<p>1 5 1</p> <p>7 3</p> <p>5 1 6</p> <p>3 6 5 7 3</p> <p>1</p> <p>7 3 6</p> <p>5 1 5</p> <p>6 5 1 3 6</p> <p>7 3 6 7</p> <p>1 5 1</p> <p>7 3</p> <p>5 1 6</p> <p>3 6 5 7 3</p> <p>1</p> <p>7 3 6</p> <p>5 1 5</p> <p>6 5 1 3 6</p> <p>7 3 6 7</p>	<p>53</p>	<p>7 3 6</p> <p>5 1 5</p> <p>7</p> <p>6 5 1 3 6</p> <p>7 3 6 7</p>	<p>1 1 1</p> <p>1 1 1</p> <p>2</p> <p>3 3 3 3 3</p>	<p>1 1 1</p> <p>1 1 1</p> <p>2</p> <p>3 3 3 2 2</p> <p>4</p>	<p>1 1 1</p> <p>2 2 2</p> <p>3</p> <p>4 4 4 4 4</p>	<p>1 1 1</p> <p>2 2 1</p> <p>3</p> <p>4 4 4 3 3</p> <p>4</p>
	<p>b5</p>					
	<p>5</p>	<p>53 / 631</p> <p>5 1 5</p> <p>7</p> <p>6 5 1 3 6</p> <p>7 3 6 7</p> <p>1 5 1</p>	<p>1 1 1</p> <p>1</p> <p>2 2 2 2 2</p> <p>4 4 4 4</p>	<p>1 1 1</p> <p>1</p> <p>2 2 2 1 1</p> <p>4 4 4 3</p> <p>4 4</p>	<p>1 1 1</p> <p>2</p> <p>3 3 3 3 3</p> <p>4 4 4 4</p>	<p>1 1 1</p> <p>2</p> <p>3 3 3 2 2</p> <p>4 4 4 4</p> <p>4 4</p>
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	<p>b7</p>	<p>641</p> <p>7 3 6 7</p> <p>1 5 1</p> <p>7 3</p> <p>5 1 6</p>	<p>1 1 1</p> <p>2 2 2</p> <p>3 3 3</p> <p>4 4 4</p>	<p>1 1 1</p> <p>2 2 1 1</p> <p>3 3 3</p> <p>4 4 3</p>	<p>2 2 2 2</p> <p>3 3 3</p> <p>4 4 4</p>	<p>2 2 2 1</p> <p>3 2 2</p> <p>4 4 4</p>
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6/9/11 sextatonic scale

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1

1 4 5 1
2 5 1 4 6 2
3 6 2 5 3
4 1 4
5 1 4 2 5
6 2 5 1 3 6
1 4 5 1
2 5 1 4 6 2
3 6 2 5 3
4 1 4
5 1 4 2 5
6 2 5 1 3 6
3 6 2 4

42

1 4 5 1
2 5 1 4 6 2
3 6 2 5 3
4 1 4
5 1 4 2 5
6 2 5 1 3 6
1 4 5 1
2 5 1 4 6 2
3 6 2 5 3
4 1 4
5 1 4 2 5
6 2 5 1 3 6
3 6 2 4

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2

1 4 5 1
2 5 1 4 6 2
3 6 2 5 3
4 1 4
5 1 4 2 5
6 2 5 1 3 6
1 4 5 1
2 5 1 4 6 2
3 6 2 5 3
4 1 4
5 1 4 2 5
6 2 5 1 3 6
3 6 2 4

52

1 4 5 1
2 5 1 4 6 2
3 6 2 5 3
4 1 4
5 1 4 2 5
6 2 5 1 3 6
1 4 5 1
2 5 1 4 6 2
3 6 2 5 3
4 1 4
5 1 4 2 5
6 2 5 1 3 6
3 6 2 4

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4

1 4 5 1
2 5 1 4 6 2
3 6 2 5 3
4 1 4
5 1 4 2 5
6 2 5 1 3 6
1 4 5 1
2 5 1 4 6 2
3 6 2 5 3
4 1 4
5 1 4 2 5
6 2 5 1 3 6
3 6 2 4

b1

1 4 5 1
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3 6 2 5 3
4 1 4
5 1 4 2 5
6 2 5 1 3 6
1 4 5 1
2 5 1 4 6 2
3 6 2 5 3
4 1 4
5 1 4 2 5
6 2 5 1 3 6
3 6 2 4

b2

1 4 5 1
2 5 1 4 6 2
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5 1 4 2 5
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b3

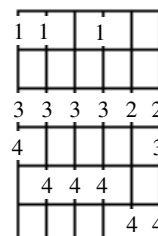
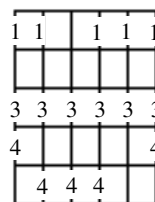
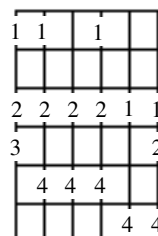
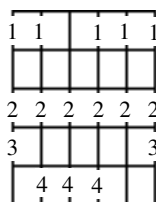
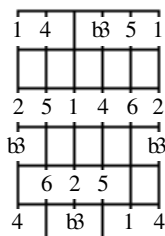
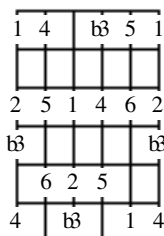
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1 4 5 1
2 5 1 4 6 2
3 6 2 5 3
4 1 4
5 1 4 2 5
6 2 5 1 3 6
3 6 2 4

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b5	53 / 631	<p>5 1 4 2 5</p> <p>6 2 5 1 3 6</p> <p>4</p> <p>3 6 2</p> <p>1 4 5 1</p>	<p>1 1 1 1 1 1</p> <p>2 2 2 2 2 2</p> <p>3</p> <p>4 4 4</p>	<p>1 1 1</p> <p>2 2 2 2 1 1</p> <p>2</p> <p>4 4 4</p> <p>4 4</p>	<p>1 1 1 1 1 1</p> <p>3 3 3 3 3 3</p> <p>4</p> <p>4 4 4</p>	<p>1 1 1</p> <p>3 3 3 3 2 2</p> <p>3</p> <p>4 4 4</p> <p>4 4</p>
5	631	<p>6 2 5 1 3 6</p> <p>4</p> <p>3 6 2</p> <p>1 4 5 1</p> <p>3</p>	<p>1 1 1 1 1 1</p> <p>2</p> <p>3 3 3</p> <p>4 4 4 4</p>	<p>1 1 1 1 1 1</p> <p>1</p> <p>3 3 3</p> <p>4 4 3 3</p>	<p>2 2 2 2 2 2</p> <p>3</p> <p>4 4 4</p> <p>4 4 4 4</p>	<p>2 2 2 2 1 1</p> <p>2</p> <p>4 4 4</p> <p>4 4 4 4</p>
b6	631	<p>6 2 5 1 3 6</p> <p>4</p> <p>3 6 2</p> <p>1 4 5 1</p> <p>3</p> <p>2 5 1 4 6 2</p>	<p>1 1 1 1 1 1</p> <p>1</p> <p>2 2 2</p> <p>3 3 3 3</p> <p>4</p>	<p>1 1 1 1</p> <p>1</p> <p>2 2 2</p> <p>3 3 2 2</p> <p>4</p> <p>4 4</p>	<p>1 1 1 1 1 1</p> <p>2</p> <p>3 3 3</p> <p>4 4 4 4</p> <p>4</p>	<p>1 1 1 1</p> <p>1</p> <p>3 3 3</p> <p>4 4 3 3</p> <p>4</p> <p>4 4</p>
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7						

m6/9/11 sextatonic scale

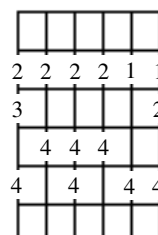
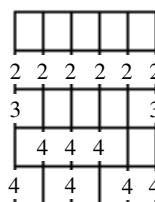
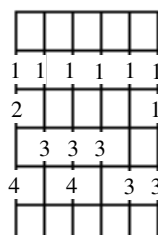
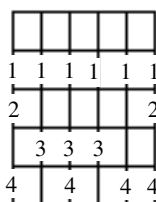
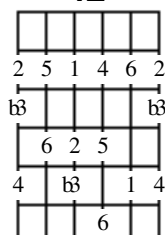
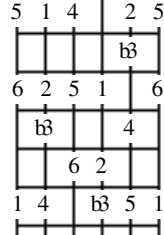
641 / 42

1



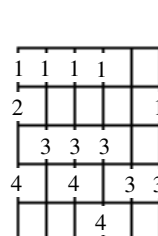
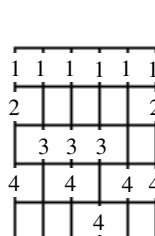
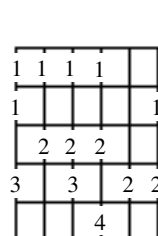
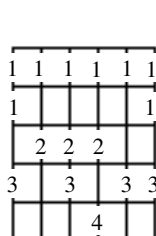
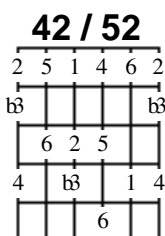
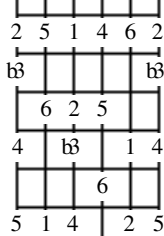
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b2



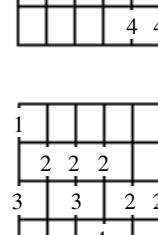
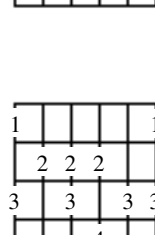
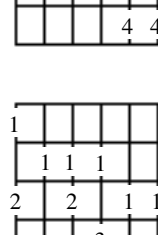
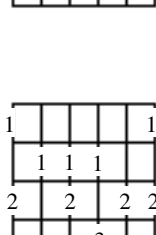
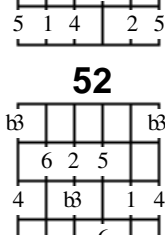
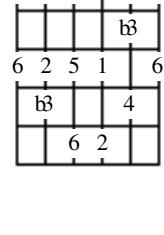
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2



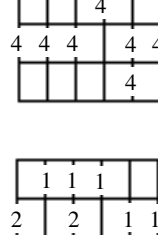
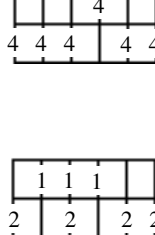
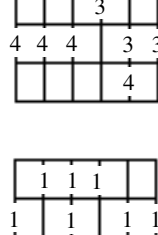
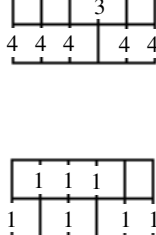
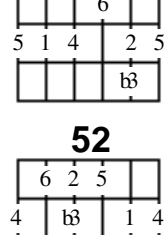
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b3



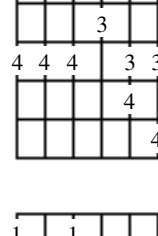
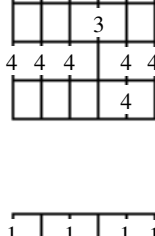
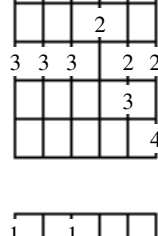
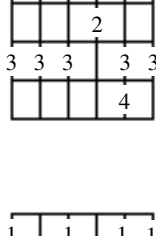
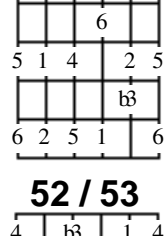
52

3



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4



53

b5

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5

631

b6

631

6

641

b7

641

7

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dominant 11 sextatonic scale

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Figure 1 displays ten diagrams, labeled 1 through 10, showing various configurations of numbers and symbols (1, 2, 3, 4, b7) arranged in a grid-like structure. The diagrams are arranged in two rows of five. The first row shows configurations with numbers 1, 2, 3, 4, and b7. The second row shows configurations with numbers 1, 2, 3, 4, and b7. The diagrams are labeled 1 through 10.

42

b2

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2

52

b3

52

3

3

3	2	5	3		
4	b7		1	4	
5	1	4	b7	2	5

1	1	1	1
1	1	1	1
2	3	4	5

1	1	1			
1	1	1	1		
3	3	3	3	2	2

1	1	1	1		
2	2		2	2	
4	4	4	4	4	4

1	1	1		
2	2		1	1
4	4	4	3	3

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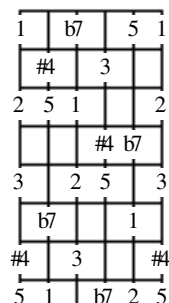
4.

<p>1 4 b7 5 1</p> <p>2 5 1 4 2</p> <p>3 2 5 3</p> <p>4 b7 1 4</p> <p>5 1 4 b7 2 5</p> <p>b7 3 2</p> <p>1 4 b7 5 1</p> <p>2 5 1 4 2</p> <p>3 2 5 3</p> <p>4 b7 1 4</p> <p>5 1 4 b7 2 5</p> <p>b7 3 2</p>	<p>53</p> <p>b5</p>	<p>5 1 4 b7 2 5</p> <p>2 5 1 3</p> <p>b7 4 b7</p> <p>3 2</p>	<p>1 1 1 1 1</p> <p>3 3 3 3</p> <p>4 4 4</p>	<p>1 1 1 1 1</p> <p>3 3 3 2</p> <p>4 3 3</p>	<p>1 1 1 1 1</p> <p>4 4 4 4</p> <p>4 4 4</p>	<p>1 1 1 1 1</p> <p>4 4 4 3</p> <p>4 4 4</p>
	<p>53 / 631</p> <p>5</p>	<p>5 1 4 b7 2 5</p> <p>2 5 1 3</p> <p>b7 4 b7</p> <p>3 2</p> <p>1 4 b7 5 1</p>	<p>1 1 1 1 1</p> <p>2 2 2 2</p> <p>3 3 3</p> <p>4 4</p>	<p>1 1 1 1</p> <p>2 2 2 1</p> <p>3 2 2</p> <p>4 4</p>	<p>1 1 1 1 1</p> <p>3 3 3 3</p> <p>4 4 4</p>	<p>1 1 1 1</p> <p>3 3 3 2</p> <p>4 3 3</p> <p>4 4</p>
	<p>631</p> <p>b6</p>	<p>2 5 1 3</p> <p>b7 4 b7</p> <p>3 2</p> <p>1 4 b7 5 1</p> <p>3</p>	<p>1 1 1 1</p> <p>2 2 2</p> <p>3 3</p> <p>4 4 4</p>	<p>1 1 1 1</p> <p>2 1 1</p> <p>3 3</p> <p>4 4 3 3</p>	<p>2 2 2 2</p> <p>3 3 3</p> <p>4 4</p> <p>4 4 4 4</p>	<p>2 2 2 1</p> <p>3 2 2</p> <p>4 4</p> <p>4 4 4 4</p>
	<p>631</p> <p>6</p>	<p>2 5 1 3</p> <p>b7 4 b7</p> <p>3 2</p> <p>1 4 b7 5 1</p> <p>3</p> <p>2 5 1 4 2</p>	<p>1 1 1 1</p> <p>2 2</p> <p>3 3 3 3</p> <p>4</p>	<p>1 1 1</p> <p>2 2</p> <p>3 3 3 2 2</p> <p>4</p>	<p>1 1 1 1</p> <p>3 3</p> <p>4 4 4 4</p>	<p>1 1 1</p> <p>3 3</p> <p>4 4 4 3 3</p> <p>4</p>
	<p>641</p> <p>b7</p>	<p>b7 4 b7</p> <p>3 2</p> <p>1 4 b7 5 1</p> <p>3</p> <p>2 5 1 4 2</p> <p>b7</p>	<p>1 1 1 1</p> <p>1 1</p> <p>2 2 2 2 2</p> <p>4 4 4 4 4</p>	<p>1 1</p> <p>1 1</p> <p>2 2 2 1 1</p> <p>4 4 4 4 3</p> <p>4</p>	<p>1 1 1 1</p> <p>2 2</p> <p>3 3 3 3 3</p> <p>4 4 4 4 4</p>	<p>1 1</p> <p>2 2</p> <p>3 3 3 2 2</p> <p>4 4 4 4 4</p> <p>4</p>
	<p>641</p> <p>7</p>	<p>3 2</p> <p>1 4 b7 5 1</p> <p>3</p> <p>2 5 1 4 2</p> <p>b7</p> <p>3 2 5 3</p>	<p>1 1</p> <p>1 1</p> <p>3 3 3 3 3</p> <p>4</p>	<p>1 1</p> <p>1 1</p> <p>3 3 3 3 2</p> <p>3</p> <p>4</p>	<p>1 1</p> <p>1 1</p> <p>4 4 4 4 4</p> <p>4</p>	<p>1 1</p> <p>1 1</p> <p>4 4 4 4 3</p> <p>4</p> <p>4</p>

9#11 sextatonic scale

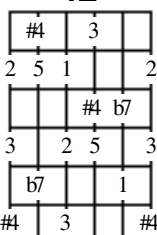
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1



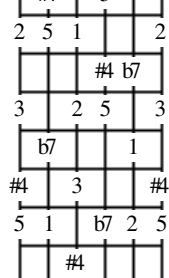
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b2



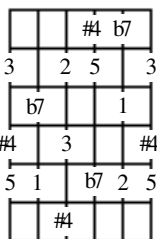
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2



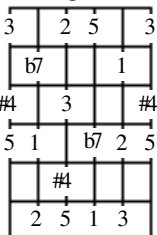
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b3



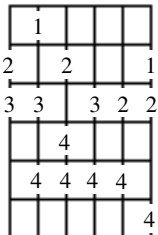
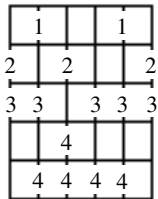
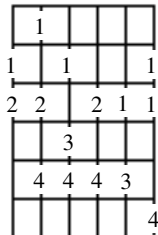
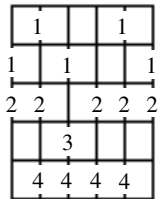
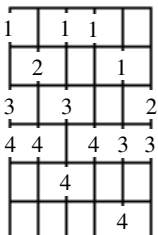
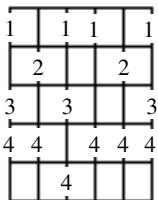
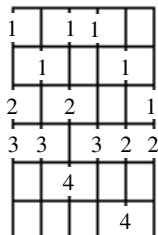
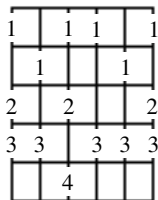
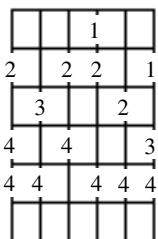
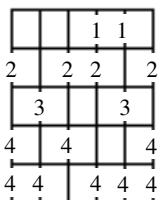
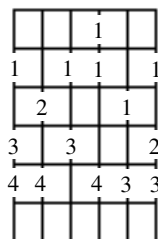
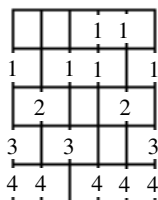
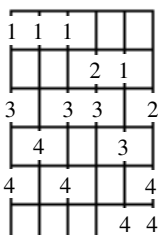
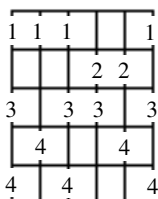
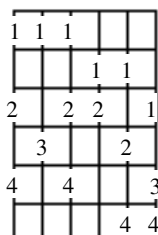
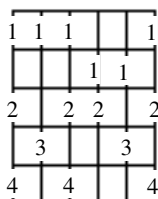
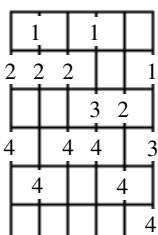
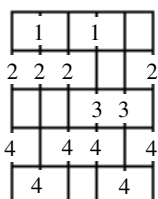
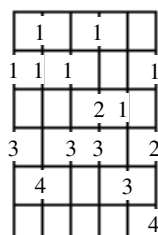
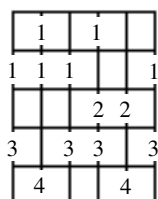
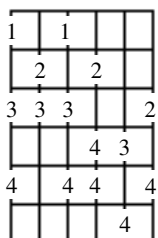
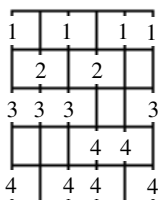
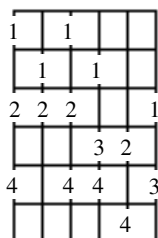
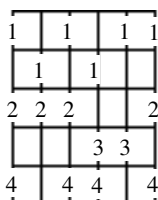
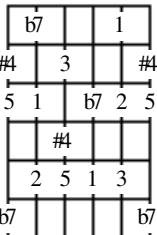
52

3



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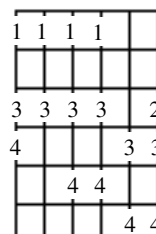
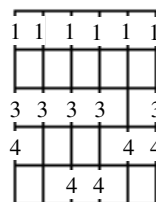
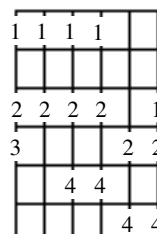
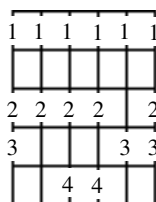
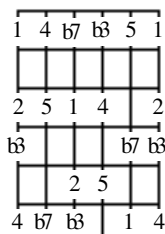
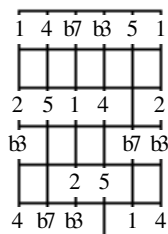
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minor 11 sextatonic scale

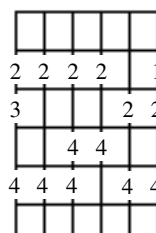
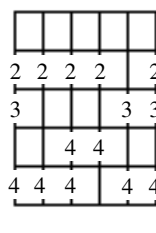
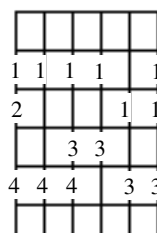
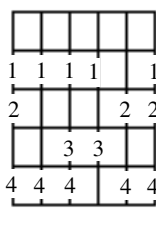
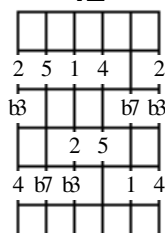
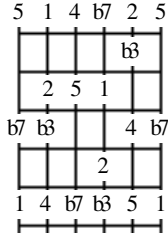
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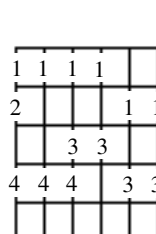
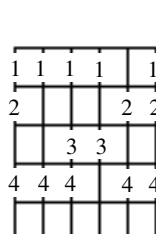
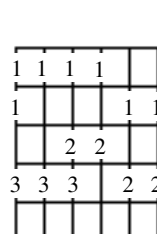
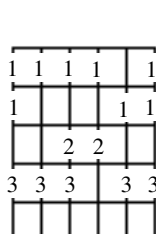
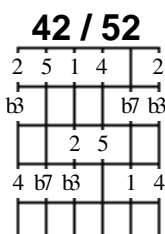
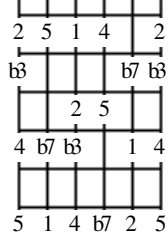
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b2



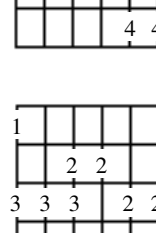
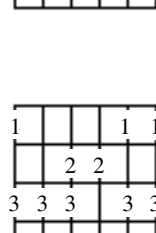
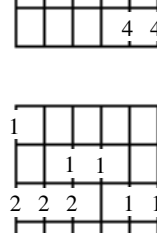
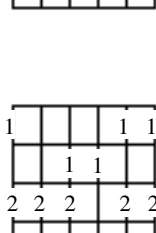
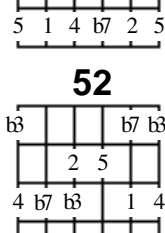
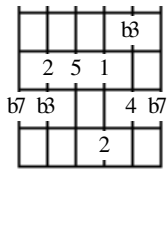
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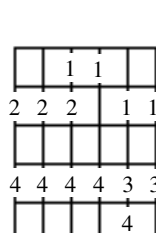
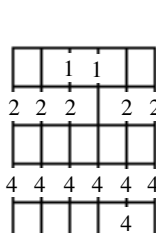
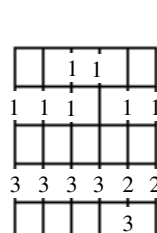
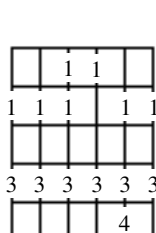
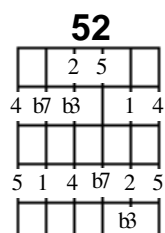
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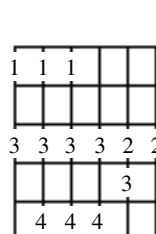
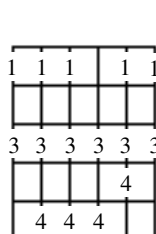
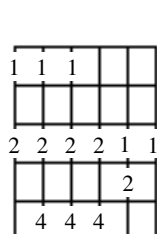
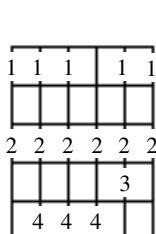
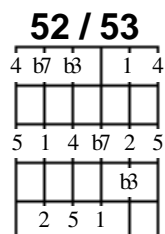
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3



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4

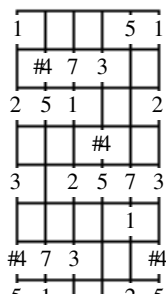


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b5	<p>53 / 631</p> <p>5 1 4 b7 2 5</p> <p>2 5 1</p> <p>b7 b3 4 b7</p> <p>2</p> <p>1 4 b7 b3 5 1</p>	<p>1 1 1 1 1 1</p> <p>2 2 2</p> <p>3 3 3 3</p> <p>4</p>	<p>1 1 1 1 1 1</p> <p>2 2 2</p> <p>3 3 2 2</p> <p>4 4 4</p>	<p>1 1 1 1 1 1</p> <p>3 3 3</p> <p>4 4 4 4</p> <p>4</p>	<p>1 1 1 1 1 1</p> <p>3 3 3</p> <p>4 4 3 3</p> <p>4 4 4</p>	
5	<p>631</p> <p>2 5 1</p> <p>b7 b3 4 b7</p> <p>2</p> <p>1 4 b7 b3 5 1</p>	<p>1 1 1</p> <p>2 2 2 2</p> <p>3 4 4 4 4 4 4</p>	<p>1 1 1</p> <p>2 2 1 1</p> <p>3 4 4 4 4 3 3</p>	<p>2 2 2</p> <p>3 3 3 3</p> <p>4 4 4 4 4 4 4</p>	<p>2 2 2</p> <p>3 3 2 2</p> <p>4 4 4 4 4 4 4</p>	
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6	<p>641</p> <p>b7 b3 4 b7</p> <p>2</p> <p>1 4 b7 b3 5 1</p> <p>2 5 1 4 2</p> <p>b3 b7 b3</p>	<p>1 1 1 1 1 1</p> <p>2 2 2 2 2 2</p> <p>4 4 4 4 4 4</p>	<p>1 1 1 1 1 1</p> <p>2 2 2 2 1 1</p> <p>4 4 4 4 3 3</p> <p>4 4</p>	<p>1 1 1 1 1 1</p> <p>3 3 3 3 3 3</p> <p>4 4 4 4 4 4</p>	<p>1 1 1 1 1 1</p> <p>3 3 3 3 2 2</p> <p>4 4 4 4 4 4</p> <p>4 4</p>	
b7	<p>641</p> <p>2</p> <p>1 4 b7 b3 5 1</p> <p>2 5 1 4 2</p> <p>b3 b7 b3</p> <p>2 5</p>	<p>1 1 1 1 1 1</p> <p>3 3 3 3 3 3</p> <p>4 4 4</p>	<p>1 1 1 1 1 1</p> <p>3 3 3 3 2 2</p> <p>4 3 3</p>	<p>2 2 2 2 2 2</p> <p>4 4 4 4 4 4</p> <p>4 4 4</p>	<p>2 2 2 2 1 1</p> <p>4 4 4 4 3 3</p> <p>4 4 4</p>	
7						

$\Delta 9\#11$ sextatonic scale

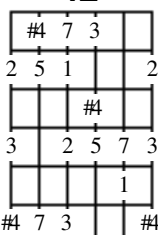
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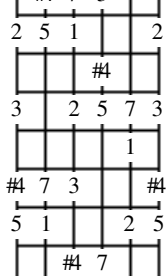
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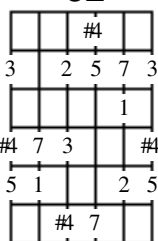
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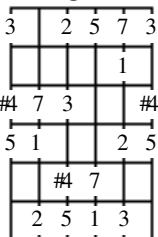
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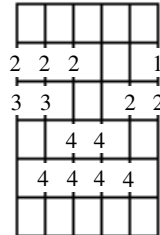
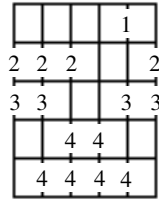
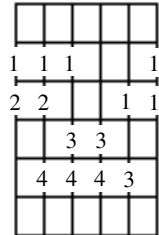
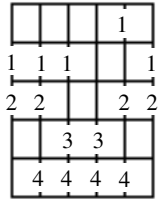
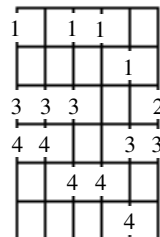
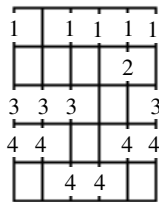
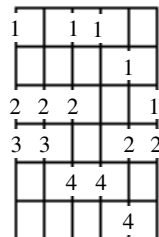
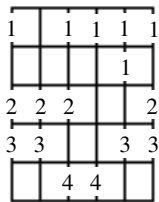
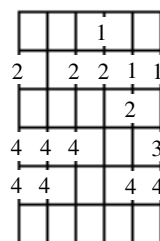
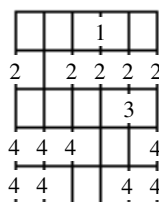
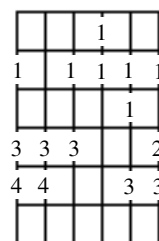
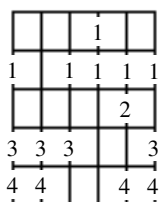
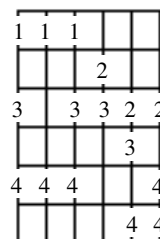
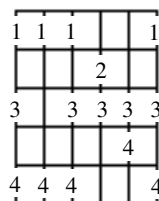
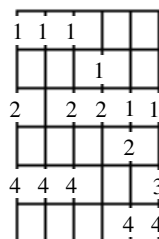
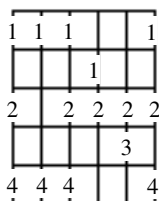
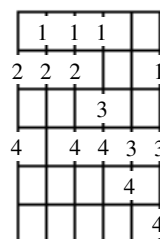
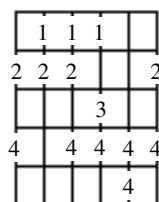
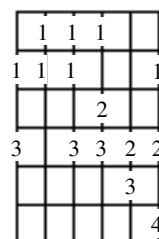
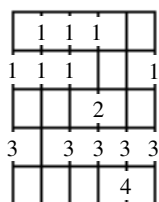
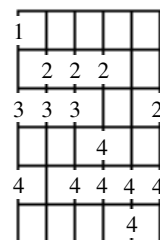
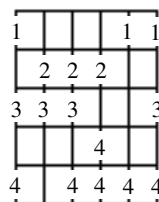
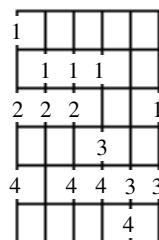
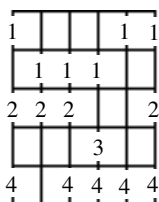
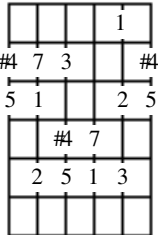
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3



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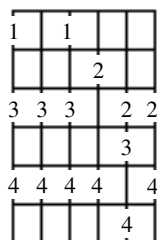
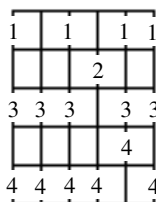
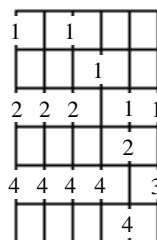
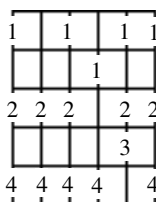
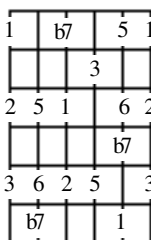
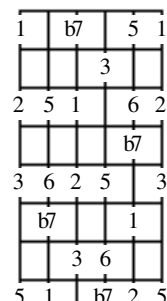
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dominant 9/6 sextatonic scale

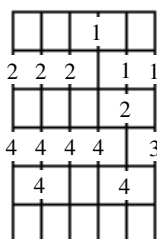
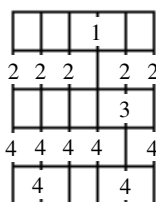
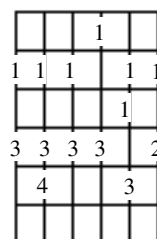
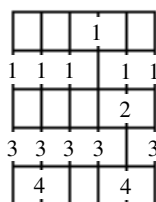
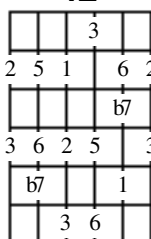
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1



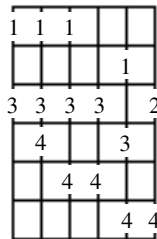
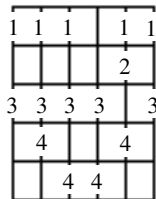
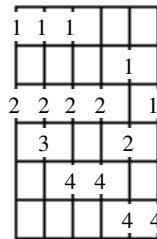
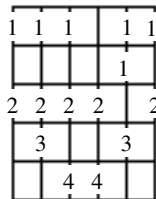
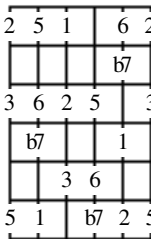
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b2



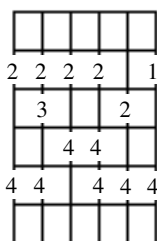
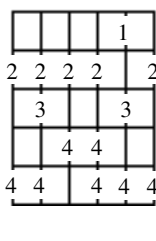
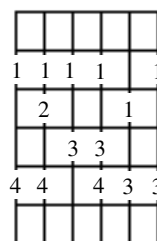
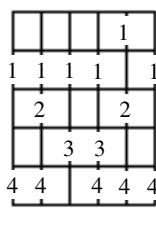
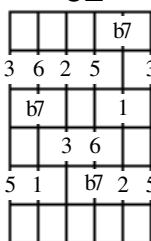
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2



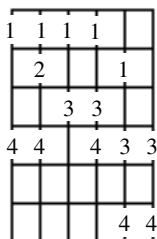
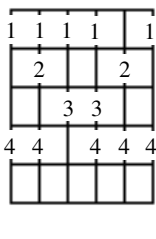
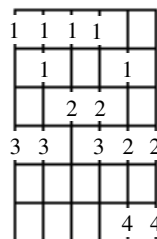
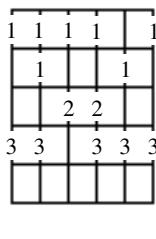
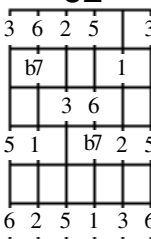
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b3



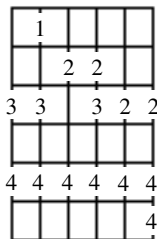
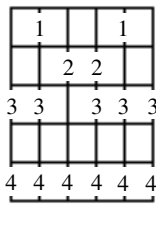
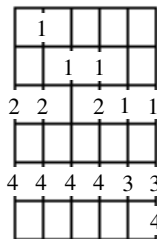
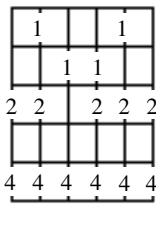
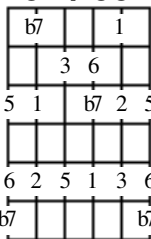
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3



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4



<p>1 b7 5 1</p> <p>2 5 1 6 2</p> <p>3 6 2 5 3</p> <p>b7 1</p> <p>5 1 b7 2 5</p> <p>6 2 5 1 3 6</p> <p>b7 3 6 2</p> <p>1 b7 5 1</p> <p>2 5 1 6 2</p> <p>3 6 2 5 3</p> <p>b7 1</p> <p>5 1 b7 2 5</p> <p>6 2 5 1 3 6</p> <p>b7 3 6 2</p>	<p>53</p>	<p>5 1 b7 2 5</p> <p>6 2 5 1 3 6</p> <p>b7 3 6 2</p>	<p>1 1 1 1 1</p> <p>3 3 3 3 3</p> <p>4 4 4 4</p>	<p>1 1 1 1 1</p> <p>3 3 3 3 2 2</p> <p>4 4 4 4 3</p>	<p>2 2 2 2 2</p> <p>4 4 4 4 4 4</p> <p>4 4 4 4</p>	<p>2 2 2 1 1</p> <p>4 4 4 4 3 3</p> <p>4 4 4 4</p>
<p>b5</p>	<p>53 / 631</p>	<p>5 1 b7 2 5</p> <p>6 2 5 1 3 6</p> <p>b7 3 6 2</p> <p>1 b7 5 1</p>	<p>1 1 1 1 1</p> <p>2 2 2 2 2 2</p> <p>3 4 4 4 3</p>	<p>1 1 1 1 1</p> <p>2 2 2 2 1 1</p> <p>3 4 4 4 2</p> <p>4 4 4 4</p>	<p>1 1 1 1 1</p> <p>3 3 3 3 3 3</p> <p>4 4 4 4</p>	<p>1 1 1 1 1</p> <p>3 3 3 3 2 2</p> <p>4 4 4 4 3</p> <p>4 4 4 4</p>
<p>5</p>	<p>631</p>	<p>6 2 5 1 3 6</p> <p>b7 3 6 2</p> <p>1 b7 5 1</p> <p>3</p>	<p>1 1 1 1 1 1</p> <p>2 3 3 3</p> <p>4 4 4 4 4</p>	<p>1 1 1 1 1 1</p> <p>2 3 3 3</p> <p>4 4 4 3 3</p>	<p>2 2 2 2 2 2</p> <p>3 4 4 4</p> <p>4 4 4 4 4</p>	<p>2 2 2 2 1 1</p> <p>3 4 4 4</p> <p>4 4 4 4 4</p>
<p>b6</p>	<p>631</p>	<p>6 2 5 1 3 6</p> <p>b7 3 6 2</p> <p>1 b7 5 1</p> <p>3</p> <p>2 5 1 6 2</p>	<p>1 1 1 1 1 1</p> <p>2 2 2 2</p> <p>3 3 3 3 4</p>	<p>1 1 1 1 1 1</p> <p>2 2 2 2</p> <p>3 3 3 2 2</p> <p>4 4 4 4</p>	<p>1 1 1 1 1 1</p> <p>2 3 3 3</p> <p>4 4 4 4 4</p>	<p>1 1 1 1 1 1</p> <p>2 3 3 3</p> <p>4 4 4 3 3</p> <p>4 4 4 4</p>
<p>6</p>	<p>641</p>	<p>b7 3 6 2</p> <p>1 b7 5 1</p> <p>3</p> <p>2 5 1 6 2</p> <p>b7</p>	<p>1 1 1 1 1</p> <p>2 2 2 2 3</p> <p>4 4 4 4 4</p>	<p>1 1 1 1 1</p> <p>2 2 2 1 1</p> <p>3 3 3</p> <p>4 4 4 3 3</p> <p>4 4 4</p>	<p>1 1 1 1 1</p> <p>2 2 2 2</p> <p>3 3 3 3 3</p> <p>4 4 4 4 4</p>	<p>1 1 1 1 1</p> <p>2 2 2 2</p> <p>3 3 3 2 2</p> <p>4 4 4 4 4</p> <p>4 4 4</p>
<p>b7</p>	<p>641</p>	<p>3 6 2</p> <p>1 b7 5 1</p> <p>3</p> <p>2 5 1 6 2</p> <p>b7</p> <p>3 6 2 5 3</p>	<p>1 1 1 1 1</p> <p>3 3 3 3 3</p> <p>4 4 4 4</p>	<p>1 1 1 1 1</p> <p>3 3 3 2 2</p> <p>3 3 3</p> <p>4 4 4 4</p>	<p>1 1 1 1 1</p> <p>2 2 2 2</p> <p>3 3 3 3 3</p> <p>4 4 4 4 4</p>	<p>1 1 1 1 1</p> <p>2 2 2 1 1</p> <p>3 3 3 3 3</p> <p>4 4 4 4 4</p> <p>4 4 4</p>
<p>7</p>						

minor 9/6 sextatonic scale

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1

1	b7	b3	5	1
2	5	1	6	2
b3			b7	b3

1	b7	b3	5	1
2	5	1	6	2
b3			b7	b3
6	2	5		
b7	b3	1		

1	1	1	1	1
2	2	2	2	2
3			3	3
4	4	4		

1	1	1		
2	2	2	1	1
3			2	2
4	4	4		
			4	

1	1	1	1	1
3	3	3	3	3
4			4	4
4	4	4		

1	1	1		
3	3	3	2	2
4			3	3
4	4	4		
			4	

42

b2

5	1	b7	2	5
			b3	
6	2	5	1	6
b7	b3			b7
	6	2		
1	b7	b3	5	1

2	5	1	6	2
b3			b7	b3
6	2	5		
b7	b3	1		
	6			

1	1	1	1	1
2			2	2
3	3	3		
4	4	4		

1	1	1	1	1
2			1	1
3	3	3		
4	4	4	3	

2	2	2	2	2
3			3	3
4	4	4		
4	4	4		

2	2	2	1	1
3			2	2
4	4	4		
4	4	4		

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2

2	5	1	6	2
b3			b7	b3
6	2	5		
b7	b3	1		
	6			
5	1	b7	2	5

2	5	1	6	2
b3			b7	b3
6	2	5		
b7	b3	1		
	6			
5	1	b7	2	5

1	1	1	1	1
1			1	1
2	2	2		
3	3	3		
			4	

1	1	1		
1			1	1
2	2	2		
3	3	3	2	
			4	
			4	4

1	1	1	1	1
2			2	2
3	3	3		
4	4		4	
			4	

1	1	1		
2			1	1
3	3	3		
4	4		3	
			4	
			4	4

52

b3

6	2	5		
b7	b3	1		
	6			
5	1	b7	2	5
			b3	
6	2	5	1	6
b7	b3			b7

b3			b7	b3
6	2	5		
b7	b3	1		
	6			
5	1	b7	2	5
			b3	

1			1	1
	1	1	1	
	2	2	2	
			3	
4	4	4	4	4

1				
	1	1	1	
	2	2	1	
			3	
4	4	4	3	3
			4	

1			1	1
	2	2	2	
	3	3	3	
			4	
4	4	4	4	4

1				
	2	2	2	
	3	3	2	
			4	
4	4	4	4	4
			4	

52

3

6	2	5		
b7	b3	1		
	6			
5	1	b7	2	5
			b3	
6	2	5	1	6

1	1	1		
	1	1	1	
		2		
3	3	3	3	3
			4	

1	1	1		
	1	1	1	
		2		
3	3	3	2	2
			3	
			4	

1	1	1		
	2	2	2	
		3		
4	4	4	4	4
			4	

1	1	1		
	2	2	1	
		3		
4	4	4	3	3
			4	
			4	

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4

b7	b3	1		
	6			
5	1	b7	2	5
			b3	
6	2	5	1	6
b7	b3			b7

1	1	1		
		1		
2	2	2	2	2
			3	
4	4	4	4	4

1	1			
		1		
2	2	2	1	1
			2	
4	4	4	4	3
				4

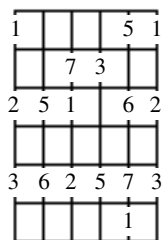
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		2		
3	3	3	3	3
			4	
4	4	4	4	4

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		2		
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			3	
4	4	4	4	4
				4

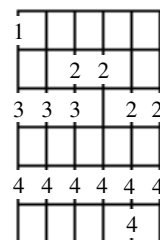
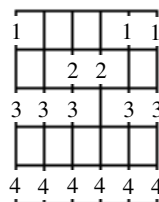
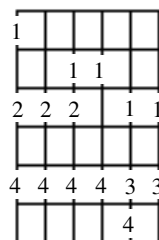
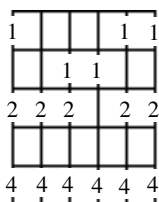
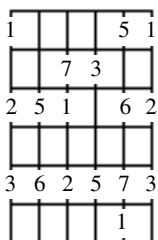
	1	1	
2	2	2	1
4	4	4	3
4			4

$\Delta 9/6$ sextatonic scale

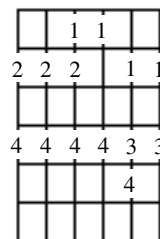
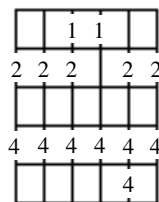
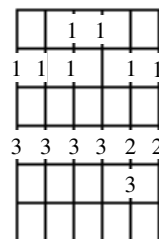
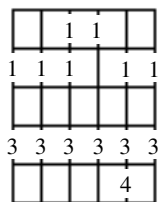
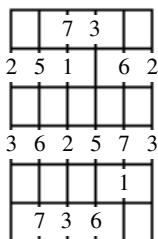
641 / 42



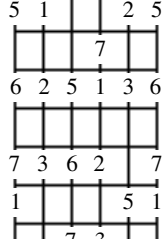
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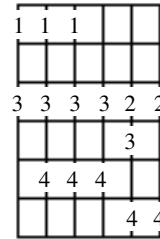
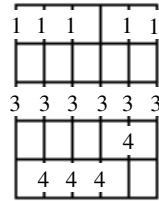
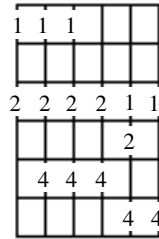
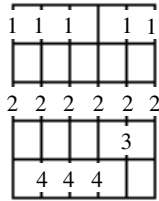
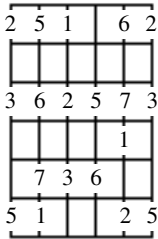
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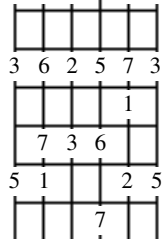
b2



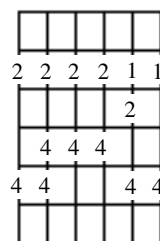
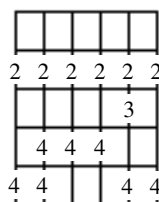
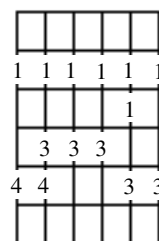
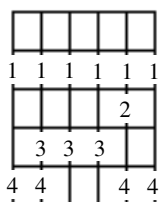
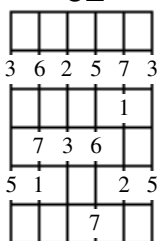
42 / 52



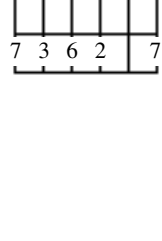
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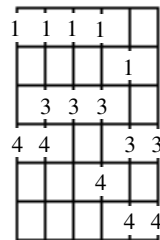
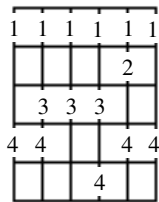
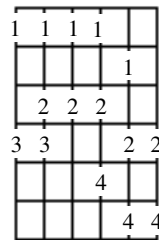
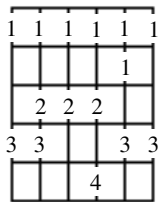
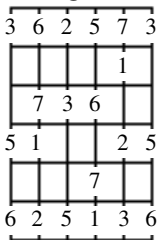
52



b3



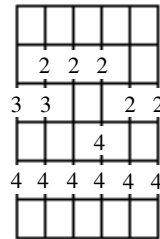
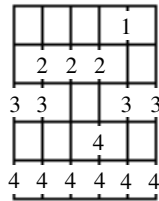
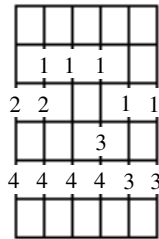
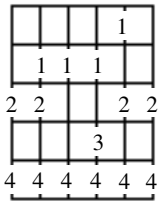
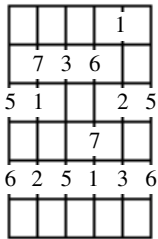
52



3



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4



The diagram illustrates the construction of a 7x7 magic square using a series of 35 diagrams arranged in a 7x5 grid. The rows are labeled on the left as **b5**, **5**, **b6**, **6**, **b7**, and **7**. The columns are labeled at the top as **53**, **53 / 631**, **631**, **641**, and **641**.

Each diagram shows a 7x7 grid with numbers and lines indicating the construction process. The numbers represent the values in the magic square, and the lines represent the construction of the square. The diagrams show the step-by-step construction of the magic square, with numbers and lines indicating the placement of numbers and the construction of lines.

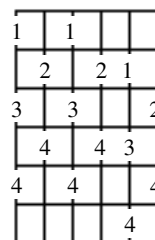
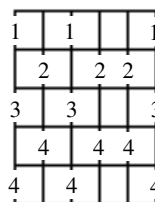
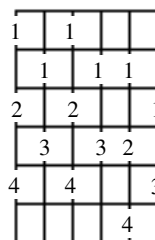
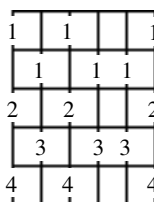
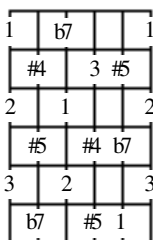
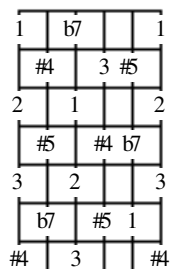
The construction process is as follows:

- Row 1 (b5):** The first row of the magic square is constructed. The numbers are 5, 3, 6, 2, 5, 3, 6. The lines show the construction of the first row.
- Row 2 (5):** The second row of the magic square is constructed. The numbers are 6, 2, 5, 1, 3, 6, 2. The lines show the construction of the second row.
- Row 3 (b6):** The third row of the magic square is constructed. The numbers are 7, 3, 6, 2, 7, 3, 6. The lines show the construction of the third row.
- Row 4 (6):** The fourth row of the magic square is constructed. The numbers are 1, 1, 1, 1, 1, 1, 1. The lines show the construction of the fourth row.
- Row 5 (b7):** The fifth row of the magic square is constructed. The numbers are 2, 2, 2, 2, 2, 2, 2. The lines show the construction of the fifth row.
- Row 6 (7):** The sixth row of the magic square is constructed. The numbers are 3, 3, 3, 3, 3, 3, 3. The lines show the construction of the sixth row.
- Row 7:** The seventh row of the magic square is constructed. The numbers are 4, 4, 4, 4, 4, 4, 4. The lines show the construction of the seventh row.

whole tone scale

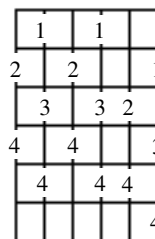
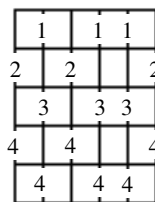
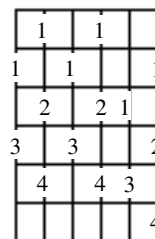
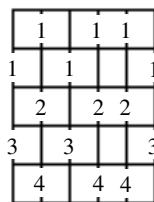
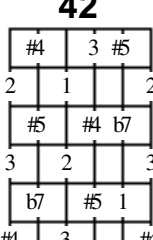
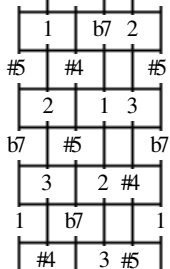
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1



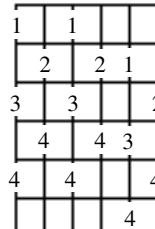
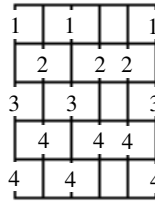
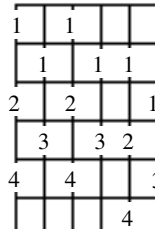
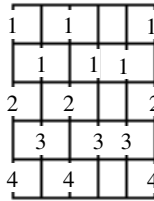
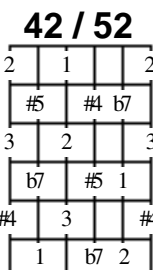
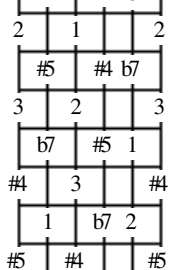
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b2



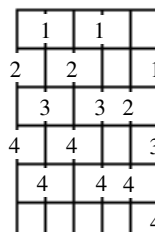
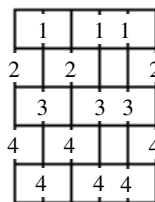
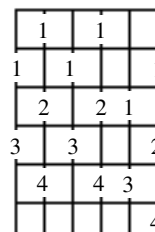
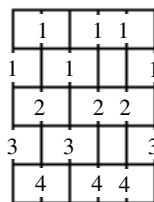
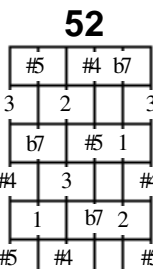
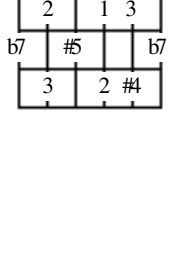
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2



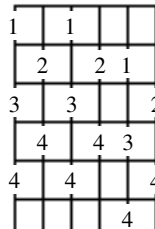
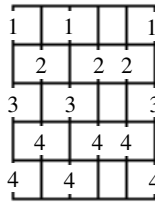
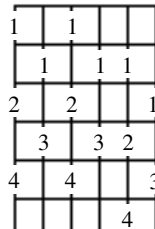
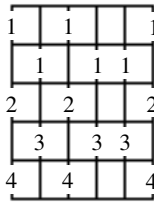
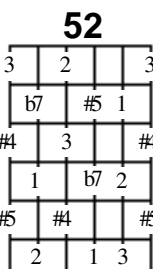
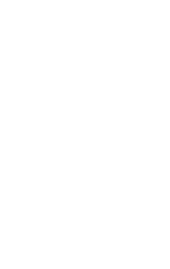
52

b3



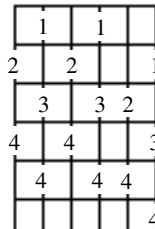
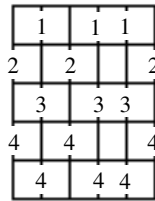
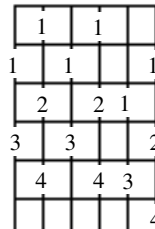
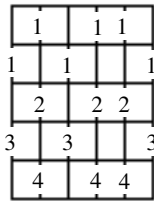
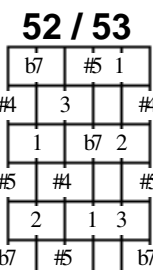
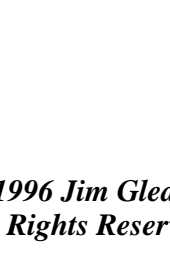
52

3



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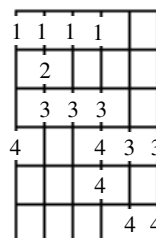
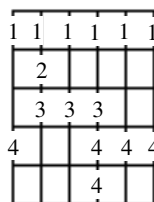
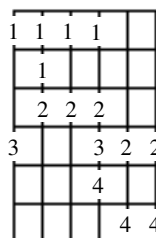
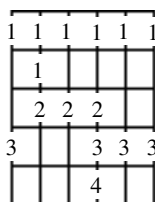
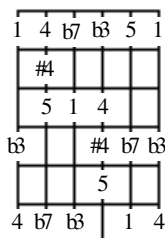
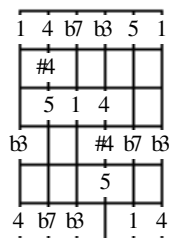
4



minor 7/11 with chromatic #4

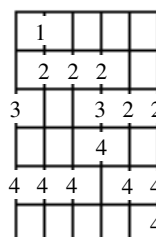
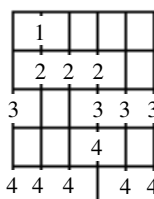
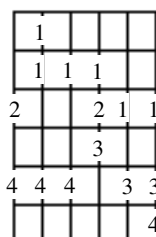
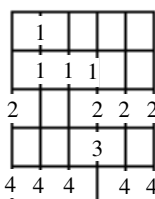
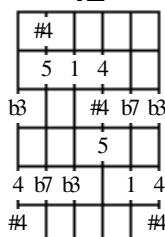
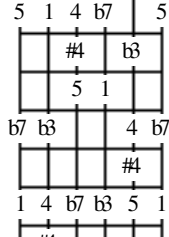
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1



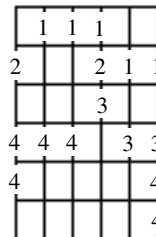
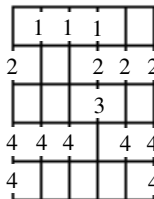
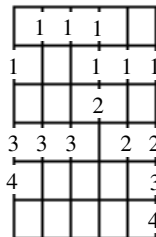
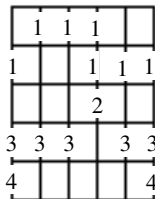
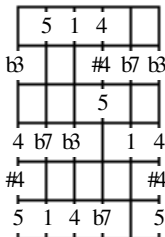
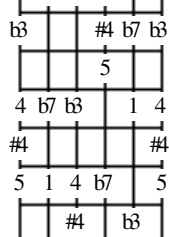
42

b2



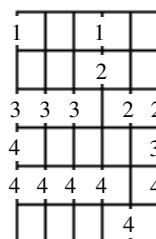
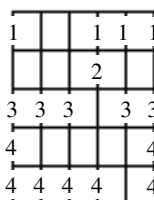
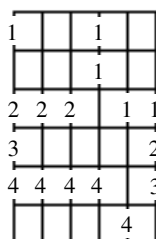
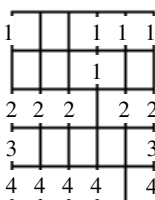
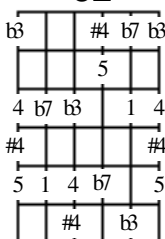
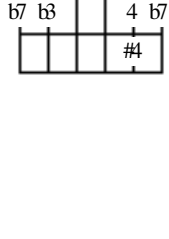
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2



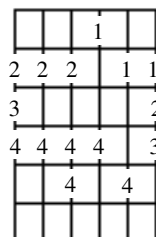
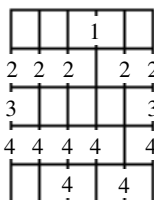
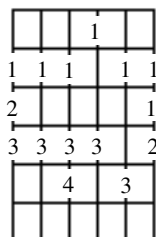
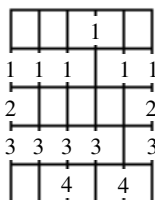
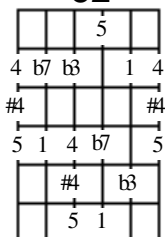
52

b3



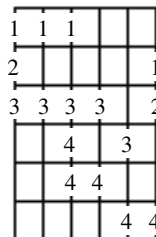
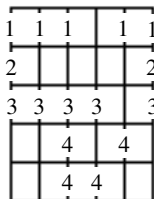
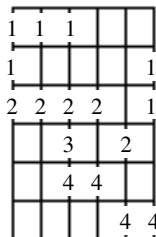
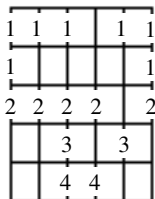
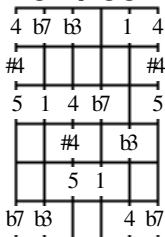
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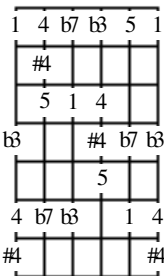
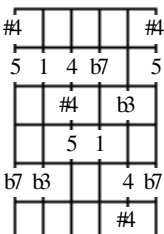
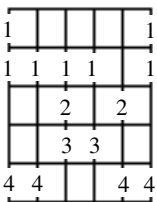
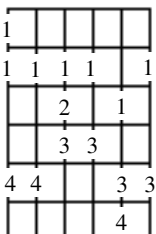
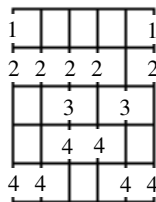
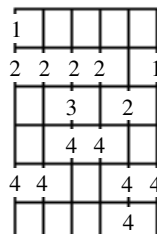
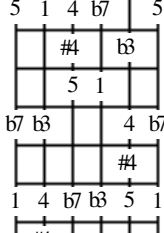
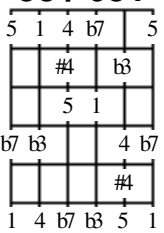
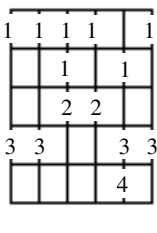
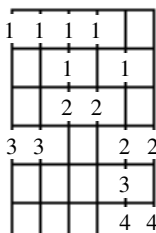
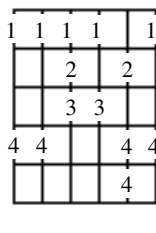
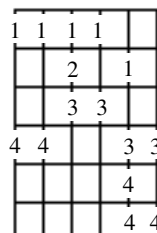
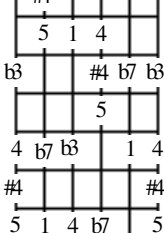
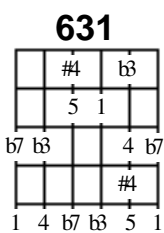
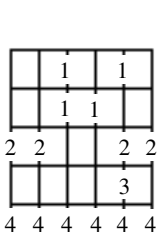
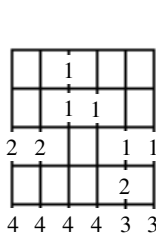
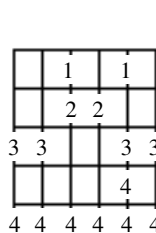
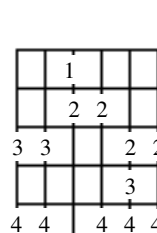
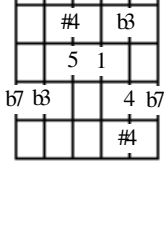
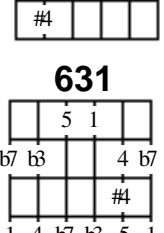
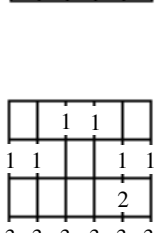
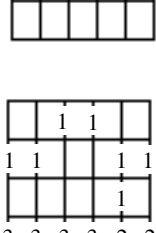
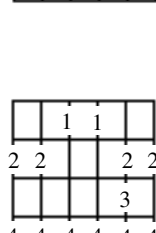
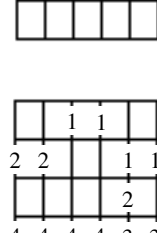

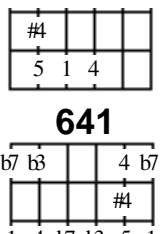
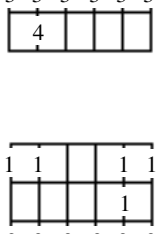
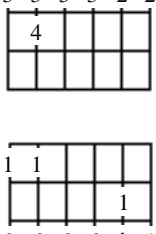
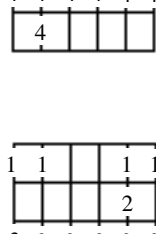
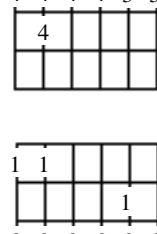

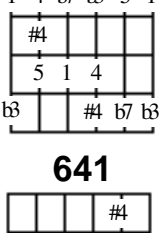
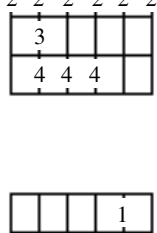
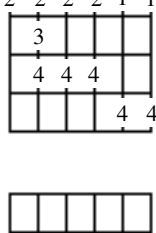
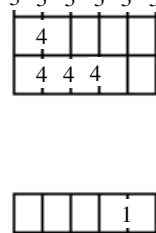
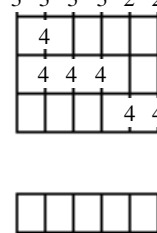
3



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4

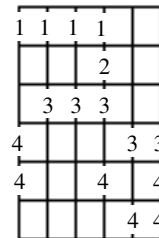
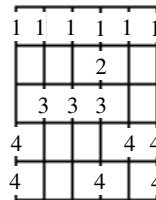
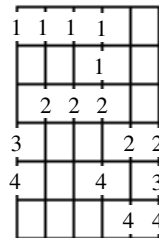
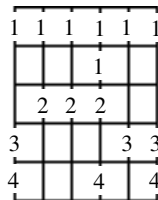
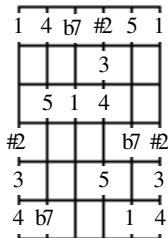
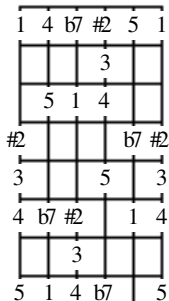


		53					
	b5						
	5	53 / 631					
	b6	631					
	6	631					
	b7	641					
	7	641					

7#9/11 sextatonic scale

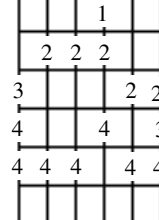
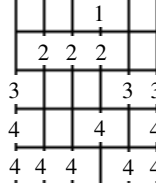
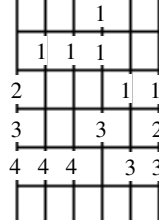
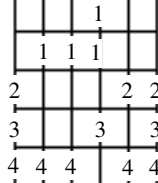
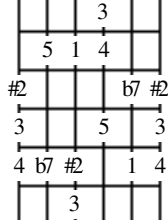
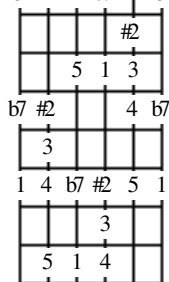
641 / 42

1



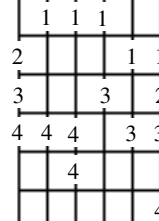
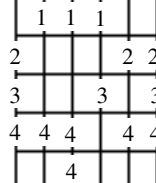
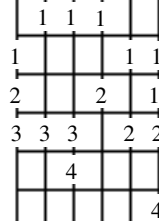
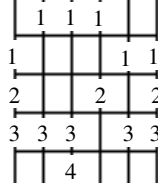
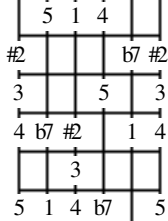
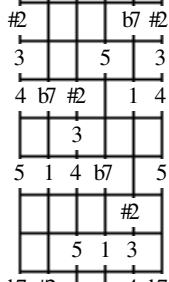
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b2



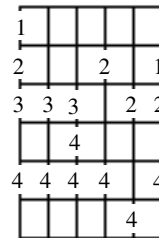
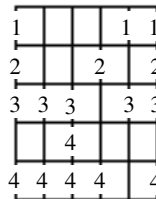
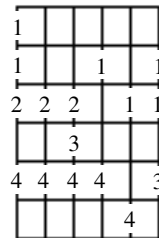
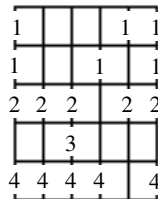
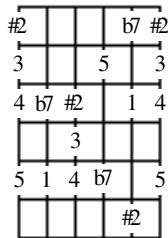
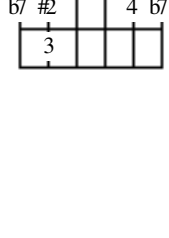
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2



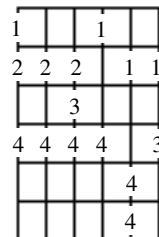
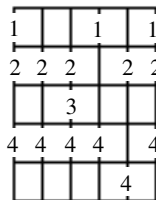
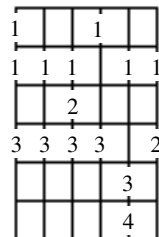
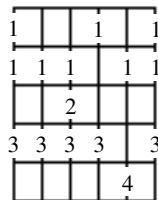
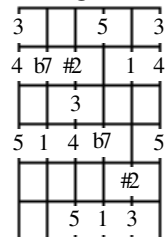
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b3



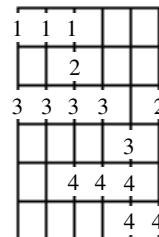
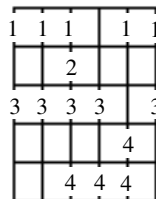
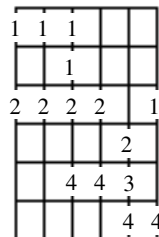
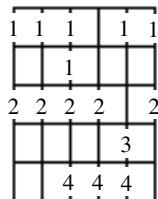
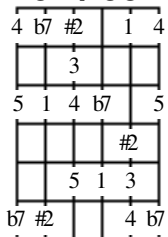
52

3



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4



53

b5

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5

631

b6

631

6

641

b7

641

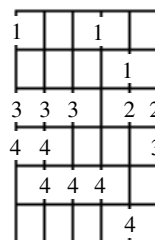
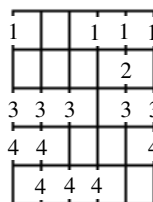
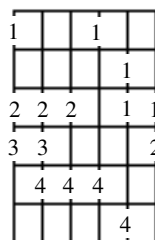
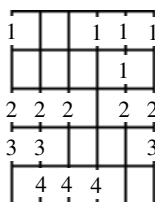
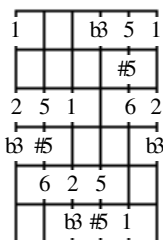
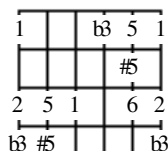
7

The image displays a collection of 3x3 grids, each containing numbers and symbols. The grids are organized into rows and columns, with some grids having additional numbers outside their borders. The symbols used include #2, b7, and b5. The grids are arranged in a 7x5 grid layout, with some grids having additional numbers outside their borders.

minor 6/9 with chromatic #5

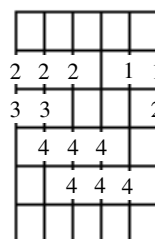
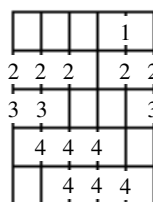
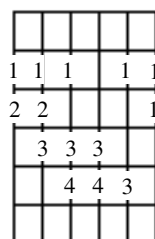
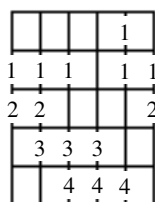
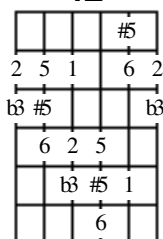
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1



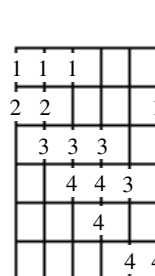
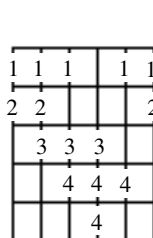
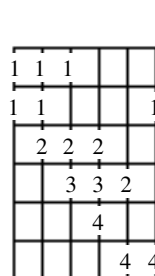
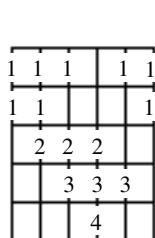
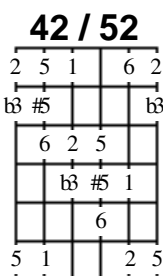
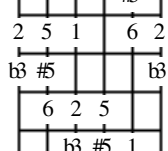
42

b2



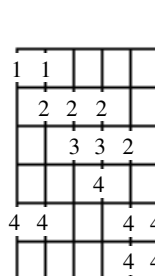
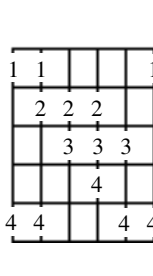
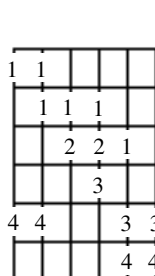
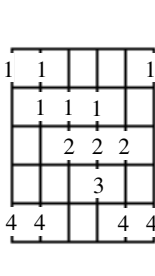
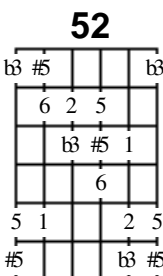
42 / 52

2



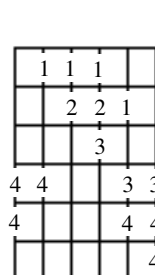
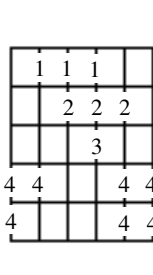
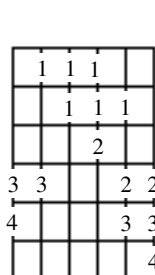
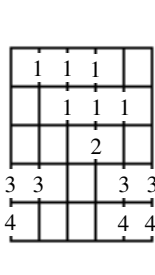
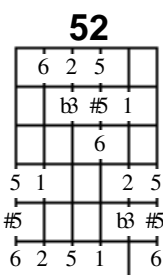
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b3



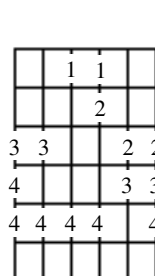
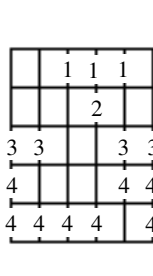
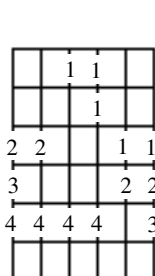
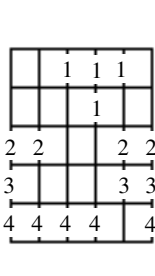
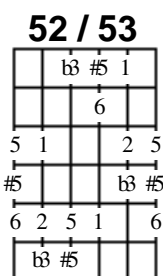
52

3



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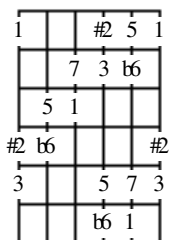
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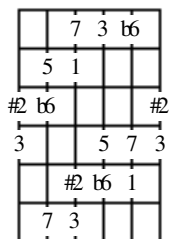
	b5	53 					
		5	53 / 631 				
		b6	631 				
		6	631 				
		b7	641 				
7	641 						

641 / 42

1		#2	5
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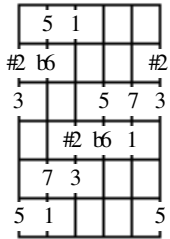


7
3

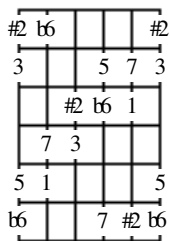


5	1		
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1

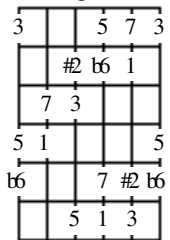


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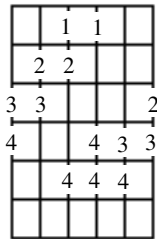
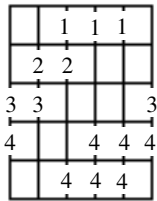
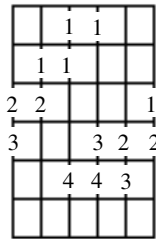
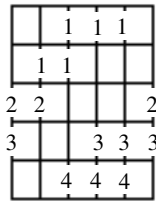
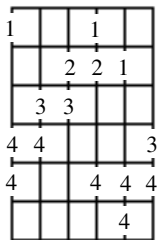
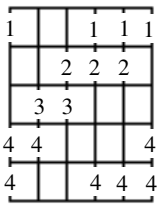
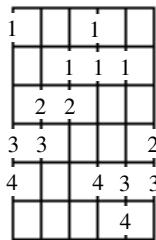
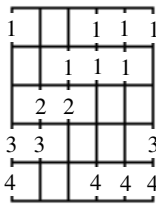
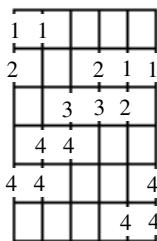
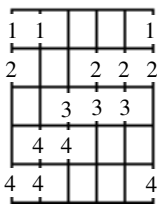
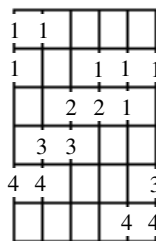
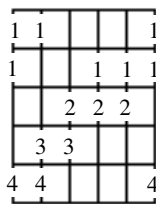
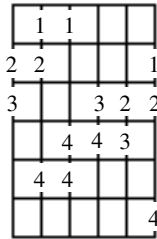
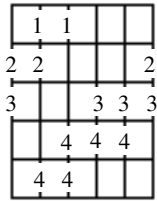
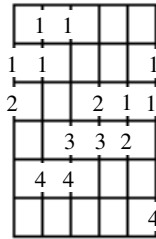
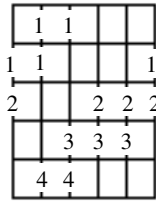
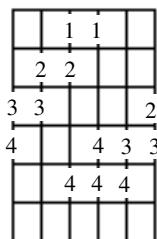
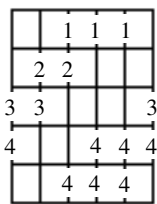
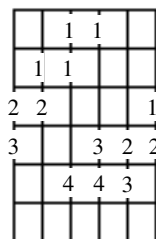
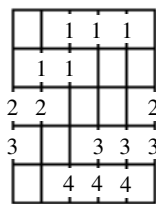
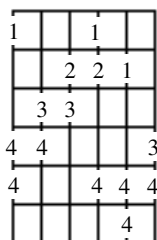
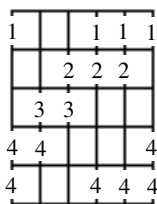
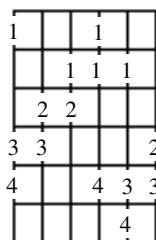
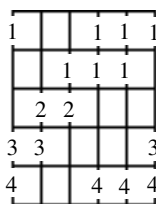
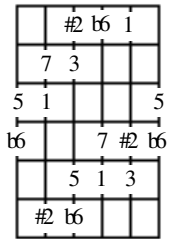
5

1



#2 b6 1

—



53

b5

53 / 631

5

631

b6

631

6

641

b7

641

7

Each grid is a 4x4 square. The numbers and symbols are placed in the cells as follows:

- Row 1 (53):** Grid 1: (1,1)=1, (1,3)=#2, (1,4)=5, (1,4)=1, (2,2)=7, (2,3)=3, (2,4)=b6, (3,1)=5, (3,2)=1, (3,3)=, (3,4)=, (4,1)=#2, (4,2)=b6, (4,3)=, (4,4)=#2, (5,1)=3, (5,2)=, (5,3)=5, (5,4)=7, (5,4)=3, (6,2)=#2, (6,3)=b6, (6,4)=1, (7,1)=7, (7,2)=3, (7,3)=, (7,4)=, (8,1)=5, (8,2)=1, (8,3)=, (8,4)=5, (9,1)=b6, (9,2)=, (9,3)=7, (9,4)=#2, (9,4)=b6, (10,2)=5, (10,3)=1, (10,4)=3, (11,1)=#2, (11,2)=b6, (11,3)=, (11,4)=, (12,1)=7, (12,2)=3, (12,3)=, (12,4)=7, (13,1)=1, (13,2)=, (13,3)=#2, (13,4)=5, (13,4)=1, (14,2)=7, (14,3)=3, (14,4)=b6, (15,1)=5, (15,2)=1, (15,3)=, (15,4)=, (16,1)=b6, (16,2)=, (16,3)=7, (16,4)=#2, (16,4)=b6, (17,2)=5, (17,3)=1, (17,4)=3, (18,1)=#2, (18,2)=b6, (18,3)=, (18,4)=, (19,1)=7, (19,2)=3, (19,3)=, (19,4)=7.
- Row 2 (b5):** Grid 1: (1,2)=7, (1,3)=3, (1,4)=, (1,4)=, (2,1)=5, (2,2)=1, (2,3)=, (2,4)=5, (3,1)=b6, (3,2)=, (3,3)=7, (3,4)=#2, (3,4)=b6, (4,2)=5, (4,3)=1, (4,4)=3, (5,1)=#2, (5,2)=b6, (5,3)=, (5,4)=, (6,1)=7, (6,2)=3, (6,3)=, (6,4)=7.
- Row 3 (53 / 631):** Grid 1: (1,2)=1, (1,3)=1, (1,4)=, (1,4)=, (2,1)=1, (2,2)=1, (2,3)=, (2,4)=1, (3,1)=2, (3,2)=2, (3,3)=2, (3,4)=2, (4,2)=3, (4,3)=3, (4,4)=3, (5,1)=4, (5,2)=4, (5,3)=, (5,4)=, (6,1)=, (6,2)=, (6,3)=, (6,4)=4.
- Row 4 (5):** Grid 1: (1,2)=1, (1,3)=1, (1,4)=, (1,4)=, (2,1)=1, (2,2)=1, (2,3)=, (2,4)=1, (3,1)=2, (3,2)=2, (3,3)=2, (3,4)=2, (4,2)=3, (4,3)=3, (4,4)=3, (5,1)=4, (5,2)=4, (5,3)=, (5,4)=, (6,1)=, (6,2)=, (6,3)=, (6,4)=4.
- Row 5 (631):** Grid 1: (1,2)=1, (1,3)=1, (1,4)=1, (1,4)=1, (2,1)=1, (2,2)=1, (2,3)=1, (2,4)=1, (3,1)=2, (3,2)=2, (3,3)=, (3,4)=, (4,1)=3, (4,2)=3, (4,3)=, (4,4)=3, (5,1)=4, (5,2)=4, (5,3)=4, (5,4)=4, (6,1)=, (6,2)=, (6,3)=, (6,4)=4.
- Row 6 (b6):** Grid 1: (1,2)=1, (1,3)=1, (1,4)=1, (1,4)=1, (2,1)=1, (2,2)=1, (2,3)=1, (2,4)=1, (3,1)=2, (3,2)=2, (3,3)=, (3,4)=, (4,1)=3, (4,2)=3, (4,3)=, (4,4)=3, (5,1)=4, (5,2)=4, (5,3)=4, (5,4)=4, (6,1)=, (6,2)=, (6,3)=, (6,4)=4.
- Row 7 (631):** Grid 1: (1,2)=1, (1,3)=1, (1,4)=1, (1,4)=1, (2,1)=1, (2,2)=1, (2,3)=1, (2,4)=1, (3,1)=2, (3,2)=2, (3,3)=, (3,4)=, (4,1)=3, (4,2)=3, (4,3)=, (4,4)=3, (5,1)=4, (5,2)=4, (5,3)=4, (5,4)=4, (6,1)=, (6,2)=, (6,3)=, (6,4)=4.
- Row 8 (6):** Grid 1: (1,2)=1, (1,3)=1, (1,4)=1, (1,4)=1, (2,1)=1, (2,2)=1, (2,3)=1, (2,4)=1, (3,1)=2, (3,2)=2, (3,3)=, (3,4)=, (4,1)=3, (4,2)=3, (4,3)=, (4,4)=3, (5,1)=4, (5,2)=4, (5,3)=4, (5,4)=4, (6,1)=, (6,2)=, (6,3)=, (6,4)=4.
- Row 9 (641):** Grid 1: (1,2)=1, (1,3)=1, (1,4)=1, (1,4)=1, (2,1)=1, (2,2)=1, (2,3)=1, (2,4)=1, (3,1)=2, (3,2)=2, (3,3)=, (3,4)=, (4,1)=3, (4,2)=3, (4,3)=, (4,4)=3, (5,1)=4, (5,2)=4, (5,3)=4, (5,4)=4, (6,1)=, (6,2)=, (6,3)=, (6,4)=4.
- Row 10 (b7):** Grid 1: (1,2)=1, (1,3)=1, (1,4)=, (1,4)=, (2,1)=1, (2,2)=1, (2,3)=, (2,4)=1, (3,1)=2, (3,2)=2, (3,3)=2, (3,4)=2, (4,2)=3, (4,3)=3, (4,4)=3, (5,1)=4, (5,2)=4, (5,3)=, (5,4)=, (6,1)=, (6,2)=, (6,3)=, (6,4)=4.
- Row 11 (641):** Grid 1: (1,2)=1, (1,3)=1, (1,4)=, (1,4)=, (2,1)=1, (2,2)=1, (2,3)=, (2,4)=1, (3,1)=2, (3,2)=2, (3,3)=2, (3,4)=2, (4,2)=3, (4,3)=3, (4,4)=3, (5,1)=4, (5,2)=4, (5,3)=, (5,4)=, (6,1)=, (6,2)=, (6,3)=, (6,4)=4.
- Row 12 (7):** Grid 1: (1,2)=1, (1,3)=1, (1,4)=, (1,4)=, (2,1)=1, (2,2)=1, (2,3)=, (2,4)=1, (3,1)=2, (3,2)=2, (3,3)=2, (3,4)=2, (4,2)=3, (4,3)=3, (4,4)=3, (5,1)=4, (5,2)=4, (5,3)=, (5,4)=, (6,1)=, (6,2)=, (6,3)=, (6,4)=4.

major scale

Figure 1 displays a sequence of 20 diagrams, labeled 1 through 20, arranged in a 4x5 grid. Each diagram represents a 4x4 grid of cells, with some cells containing numbers. The diagrams are organized into four rows, each corresponding to a specific fraction:

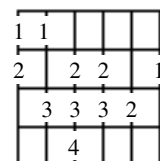
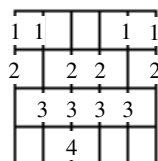
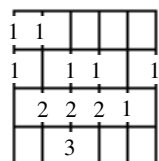
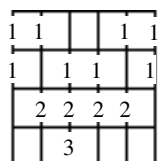
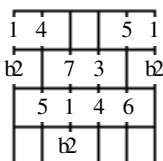
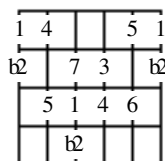
- Row 1 (Fractions: 641/42, 42, 42/52, 52):**
 - Diagram 1: 641/42. Shows a 4x4 grid with numbers 1, 4, 5, 1 in the top row, 2, 5, 1, 4, 6, 2 in the second row, 3, 6, 2, 5, 7, 3 in the third row, and 4, 1, 4 in the bottom row.
 - Diagram 2: 42. Shows a 4x4 grid with numbers 1, 1, 1, 1 in the top row, 2, 2, 2, 2, 2, 2 in the second row, 3, 3, 3, 3, 3, 3 in the third row, and 4, 4, 4, 4, 4, 4 in the bottom row.
 - Diagram 3: 42/52. Shows a 4x4 grid with numbers 1, 1, 1, 1 in the top row, 2, 2, 2, 2, 2, 2 in the second row, 3, 3, 3, 3, 2, 2 in the third row, and 4, 4, 4, 4, 3, 3 in the bottom row.
 - Diagram 4: 52. Shows a 4x4 grid with numbers 1, 1, 1, 1 in the top row, 2, 2, 2, 2, 2, 2 in the second row, 3, 3, 3, 3, 2, 2 in the third row, and 4, 4, 4, 4, 3, 3 in the bottom row.
- Row 2 (Fractions: 52/53, 52, 52, 52):**
 - Diagram 5: 52/53. Shows a 4x4 grid with numbers 1, 1, 1, 1 in the top row, 2, 2, 2, 2, 2, 2 in the second row, 3, 3, 3, 3, 2, 2 in the third row, and 4, 4, 4, 4, 3, 3 in the bottom row.
 - Diagram 6: 52. Shows a 4x4 grid with numbers 1, 1, 1, 1 in the top row, 2, 2, 2, 2, 2, 2 in the second row, 3, 3, 3, 3, 2, 2 in the third row, and 4, 4, 4, 4, 3, 3 in the bottom row.
 - Diagram 7: 52. Shows a 4x4 grid with numbers 1, 1, 1, 1 in the top row, 2, 2, 2, 2, 2, 2 in the second row, 3, 3, 3, 3, 2, 2 in the third row, and 4, 4, 4, 4, 3, 3 in the bottom row.
 - Diagram 8: 52. Shows a 4x4 grid with numbers 1, 1, 1, 1 in the top row, 2, 2, 2, 2, 2, 2 in the second row, 3, 3, 3, 3, 2, 2 in the third row, and 4, 4, 4, 4, 3, 3 in the bottom row.
- Row 3 (Fractions: 52/53, 52, 52, 52):**
 - Diagram 9: 52/53. Shows a 4x4 grid with numbers 1, 1, 1, 1 in the top row, 2, 2, 2, 2, 2, 2 in the second row, 3, 3, 3, 3, 2, 2 in the third row, and 4, 4, 4, 4, 3, 3 in the bottom row.
 - Diagram 10: 52. Shows a 4x4 grid with numbers 1, 1, 1, 1 in the top row, 2, 2, 2, 2, 2, 2 in the second row, 3, 3, 3, 3, 2, 2 in the third row, and 4, 4, 4, 4, 3, 3 in the bottom row.
 - Diagram 11: 52. Shows a 4x4 grid with numbers 1, 1, 1, 1 in the top row, 2, 2, 2, 2, 2, 2 in the second row, 3, 3, 3, 3, 2, 2 in the third row, and 4, 4, 4, 4, 3, 3 in the bottom row.
 - Diagram 12: 52. Shows a 4x4 grid with numbers 1, 1, 1, 1 in the top row, 2, 2, 2, 2, 2, 2 in the second row, 3, 3, 3, 3, 2, 2 in the third row, and 4, 4, 4, 4, 3, 3 in the bottom row.
- Row 4 (Fractions: 52/53, 52, 52, 52):**
 - Diagram 13: 52/53. Shows a 4x4 grid with numbers 1, 1, 1, 1 in the top row, 2, 2, 2, 2, 2, 2 in the second row, 3, 3, 3, 3, 2, 2 in the third row, and 4, 4, 4, 4, 3, 3 in the bottom row.
 - Diagram 14: 52. Shows a 4x4 grid with numbers 1, 1, 1, 1 in the top row, 2, 2, 2, 2, 2, 2 in the second row, 3, 3, 3, 3, 2, 2 in the third row, and 4, 4, 4, 4, 3, 3 in the bottom row.
 - Diagram 15: 52. Shows a 4x4 grid with numbers 1, 1, 1, 1 in the top row, 2, 2, 2, 2, 2, 2 in the second row, 3, 3, 3, 3, 2, 2 in the third row, and 4, 4, 4, 4, 3, 3 in the bottom row.
 - Diagram 16: 52. Shows a 4x4 grid with numbers 1, 1, 1, 1 in the top row, 2, 2, 2, 2, 2, 2 in the second row, 3, 3, 3, 3, 2, 2 in the third row, and 4, 4, 4, 4, 3, 3 in the bottom row.

<p>1 4 5 1</p> <p>7 3</p> <p>2 5 1 4 6 2</p> <p>3 6 2 5 7 3</p> <p>4 1 4</p> <p>7 3 6</p> <p>5 1 4 2 5</p> <p>7</p> <p>6 2 5 1 3 6</p> <p>4</p> <p>7 3 6 2 7</p> <p>1 4 5 1</p> <p>7 3</p> <p>2 5 1 4 6 2</p> <p>3 6 2 5 7 3</p> <p>4 1 4</p> <p>7 3 6</p> <p>5 1 4 2 5</p> <p>7</p> <p>6 2 5 1 3 6</p> <p>4</p> <p>7 3 6 2 7</p>	<p>53</p> <p>7 3 6</p> <p>5 1 4 2 5</p> <p>7</p> <p>6 2 5 1 3 6</p> <p>4</p> <p>7 3 6 2 7</p>	<p>1 1 1</p> <p>1 1 1 1 1</p> <p>2</p> <p>3 3 3 3 3 3</p> <p>4</p>	<p>1 1 1</p> <p>1 1 1 1 1</p> <p>2</p> <p>3 3 3 3 2 2</p> <p>3</p> <p>4</p>	<p>1 1 1</p> <p>2 2 2 2 2</p> <p>3</p> <p>4 4 4 4 4 4</p> <p>4</p>	<p>1 1 1</p> <p>2 2 2 1 1</p> <p>3</p> <p>4 4 4 4 3 3</p> <p>4</p>
<p>53 / 631</p> <p>5 1 4 2 5</p> <p>7</p> <p>6 2 5 1 3 6</p> <p>4</p> <p>7 3 6 2 7</p> <p>1 4 5 1</p>	<p>1 1 1 1 1</p> <p>1</p> <p>2 2 2 2 2 2</p> <p>3</p> <p>4 4 4 4 4</p>	<p>1 1 1</p> <p>1</p> <p>2 2 2 2 1 1</p> <p>2</p> <p>4 4 4 4 3</p> <p>4 4</p>	<p>1 1 1 1 1</p> <p>2</p> <p>3 3 3 3 3 3</p> <p>4</p> <p>4 4 4 4 4</p>	<p>1 1 1</p> <p>2</p> <p>3 3 3 3 2 2</p> <p>3</p> <p>4 4 4 4 4</p> <p>4 4</p>	
<p>631</p> <p>7</p> <p>6 2 5 1 3 6</p> <p>4</p> <p>7 3 6 2 7</p> <p>1 4 5 1</p> <p>7 3</p>	<p>1</p> <p>1 1 1 1 1 1</p> <p>2</p> <p>3 3 3 3 3</p> <p>4 4 4 4</p>	<p>1</p> <p>1 1 1 1 1 1</p> <p>1</p> <p>3 3 3 3 2</p> <p>4 4 3 3</p>	<p>1</p> <p>2 2 2 2 2 2</p> <p>3</p> <p>4 4 4 4 4</p> <p>4 4 4 4</p>	<p>1</p> <p>2 2 2 2 1 1</p> <p>2</p> <p>4 4 4 4 3</p> <p>4 4 4 4</p>	
<p>631</p> <p>6 2 5 1 3 6</p> <p>4</p> <p>7 3 6 2 7</p> <p>1 4 5 1</p> <p>7 3</p> <p>2 5 1 4 6 2</p>	<p>1 1 1 1 1 1</p> <p>1</p> <p>2 2 2 2 2</p> <p>3 3 3 3</p> <p>4 4</p>	<p>1 1 1 1</p> <p>1</p> <p>2 2 2 2 1</p> <p>3 3 2 2</p> <p>4 4 4 4</p>	<p>1 1 1 1 1 1</p> <p>2</p> <p>3 3 3 3 3</p> <p>4 4 4 4</p> <p>4 4</p>	<p>1 1 1 1</p> <p>1</p> <p>3 3 3 3 2</p> <p>4 4 3 3</p> <p>4 4 4 4</p>	
<p>641</p> <p>4</p> <p>7 3 6 2 7</p> <p>1 4 5 1</p> <p>7 3</p> <p>2 5 1 4 6 2</p>	<p>1</p> <p>1 1 1 1 1</p> <p>2 2 2 2</p> <p>3 3</p> <p>4 4 4 4 4 4</p>	<p>1 1 1 1</p> <p>1 1 1 1</p> <p>2 2 1 1</p> <p>3 3</p> <p>4 4 4 4 3 3</p>	<p>1</p> <p>2 2 2 2 2</p> <p>3 3 3 3</p> <p>4 4</p> <p>4 4 4 4 4 4</p>	<p>1</p> <p>2 2 2 2 1</p> <p>3 3 2 2</p> <p>4 4</p> <p>4 4 4 4 4 4</p>	
<p>641</p> <p>7 3 6 2 7</p> <p>1 4 5 1</p> <p>7 3</p> <p>2 5 1 4 6 2</p> <p>3 6 2 5 7 3</p>	<p>1 1 1 1 1 1</p> <p>1 1 1 1</p> <p>2 2</p> <p>3 3 3 3 3 3</p>	<p>1 1 1 1</p> <p>1 1 1 1</p> <p>2 2</p> <p>3 3 3 3 2 2</p> <p>4 4</p>	<p>1 1 1 1 1 1</p> <p>2 2 2 2</p> <p>3 3</p> <p>4 4 4 4 4 4</p>	<p>1 1 1 1</p> <p>2 2 1 1</p> <p>3 3</p> <p>4 4 4 4 3 3</p> <p>4 4</p>	

major b2 scale

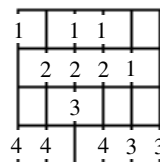
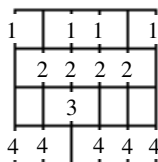
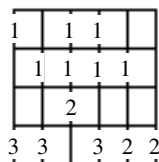
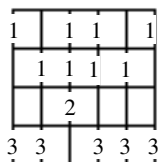
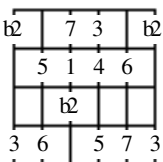
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1



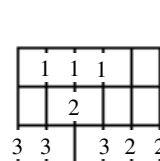
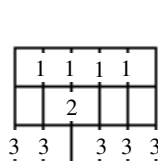
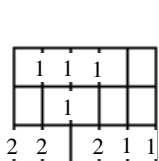
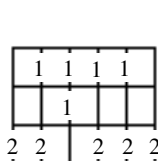
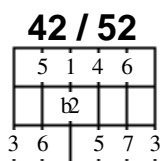
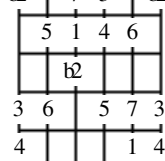
42

b2



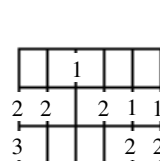
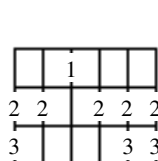
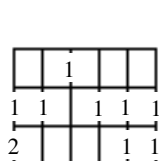
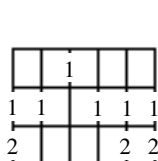
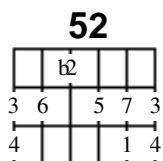
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2



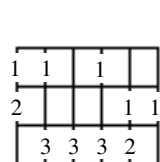
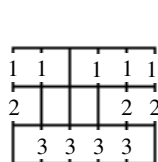
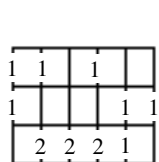
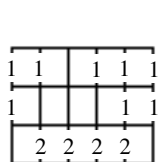
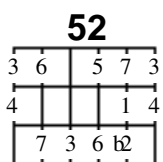
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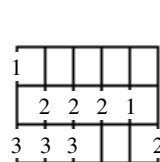
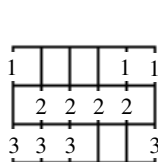
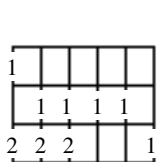
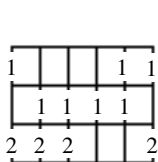
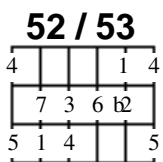
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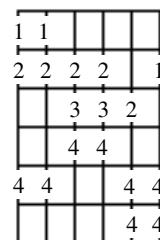
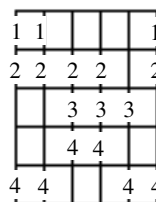
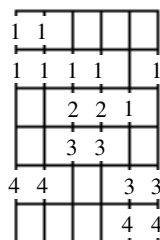
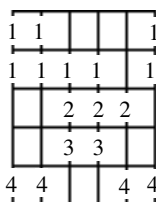
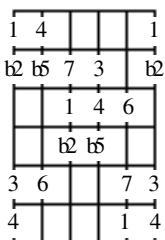
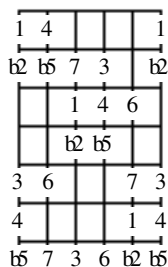


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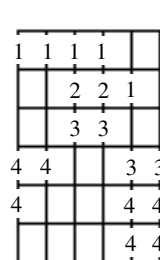
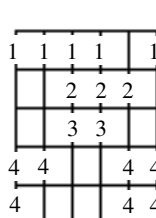
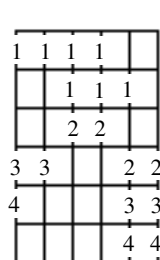
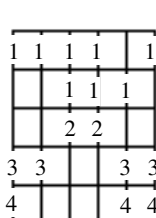
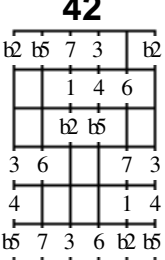
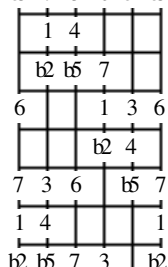
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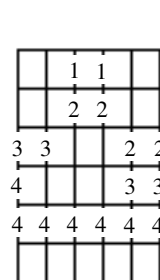
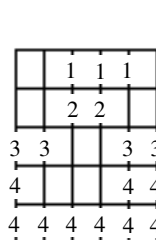
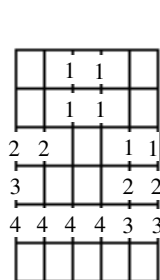
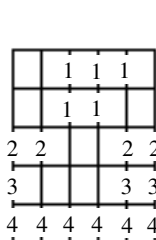
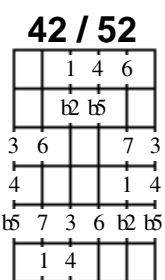
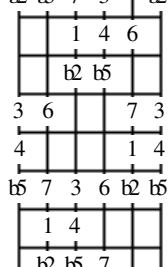
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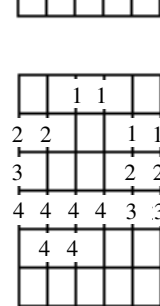
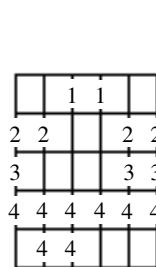
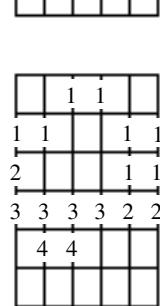
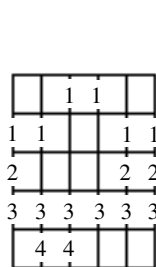
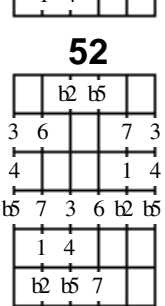
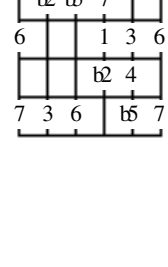
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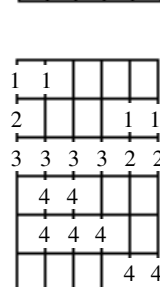
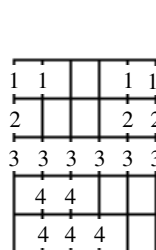
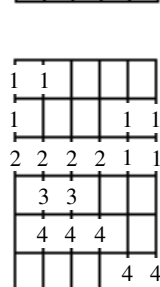
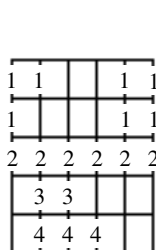
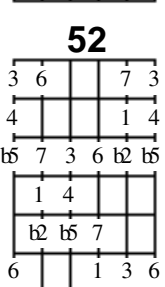
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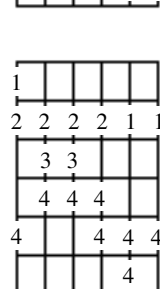
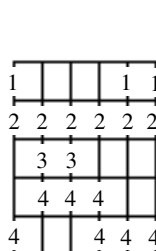
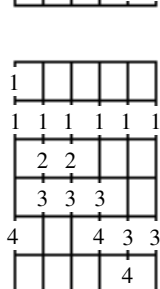
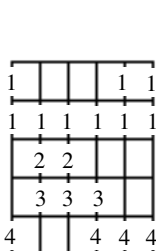
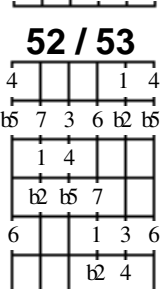
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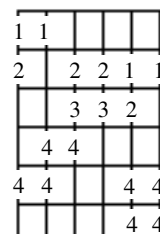
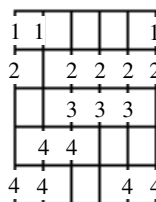
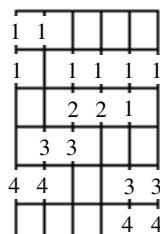
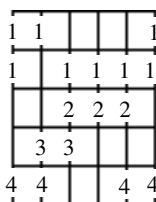
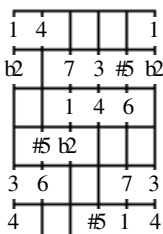
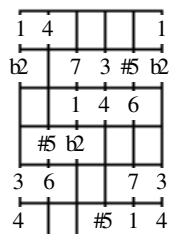


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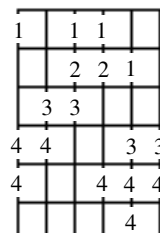
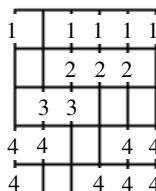
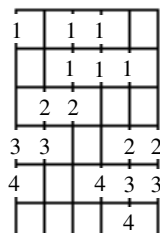
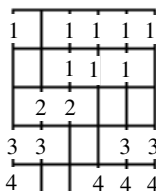
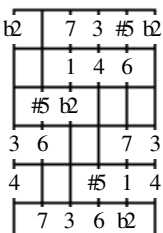
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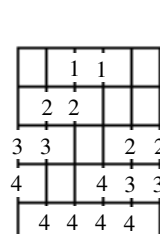
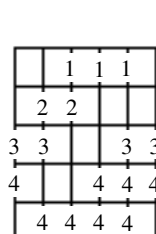
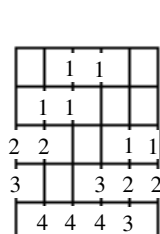
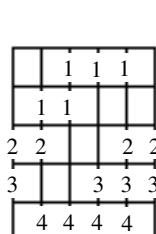
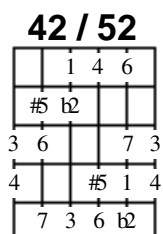
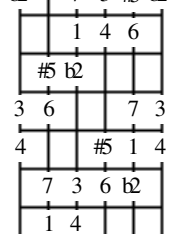
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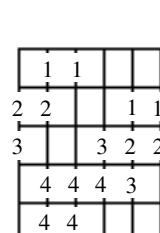
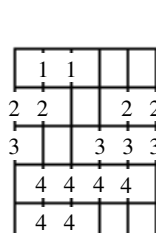
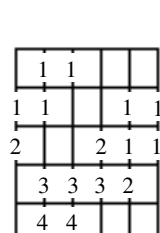
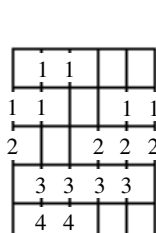
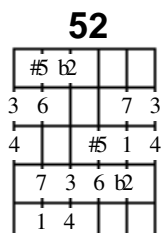
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2



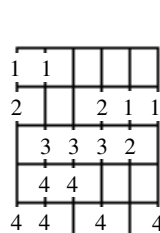
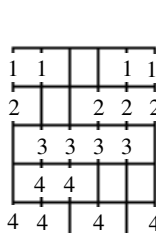
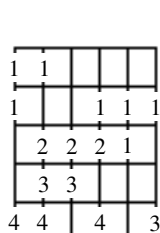
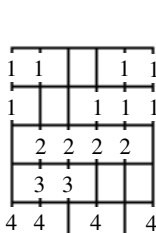
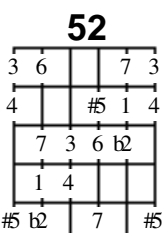
52

b3



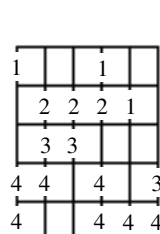
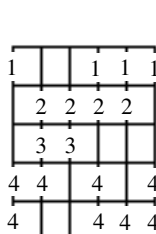
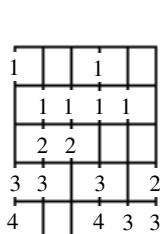
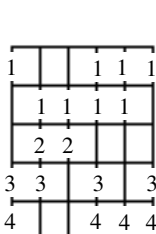
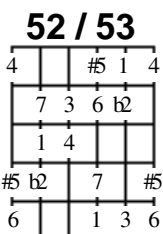
52

3



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4



53

b5

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5

631

b6

631

6

641

b7

641

7

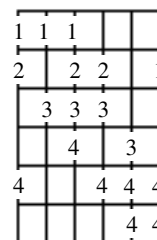
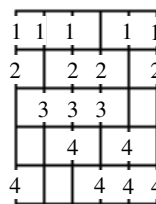
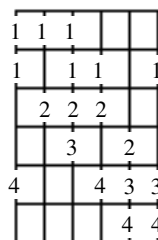
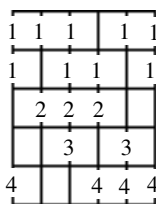
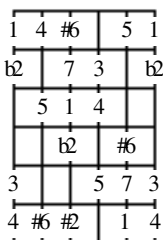
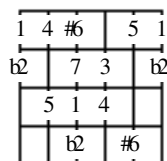
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major b2#6 scale

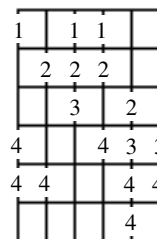
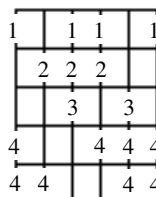
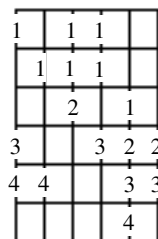
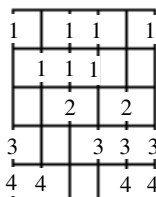
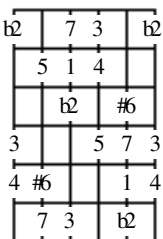
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1



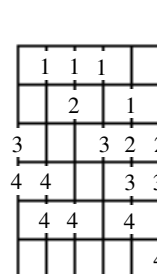
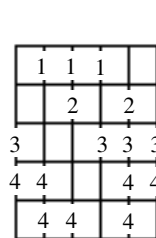
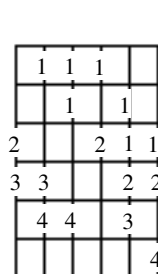
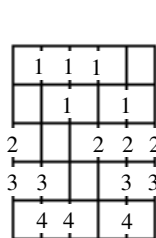
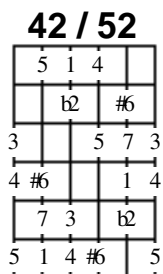
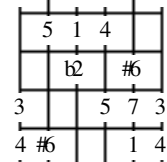
42

b2



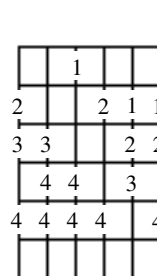
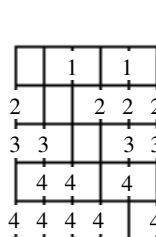
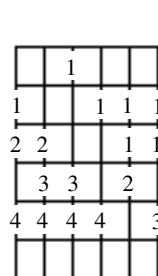
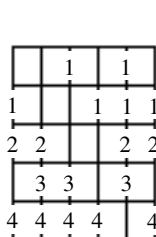
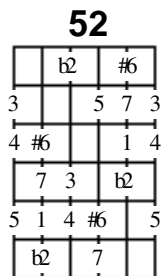
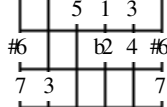
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2



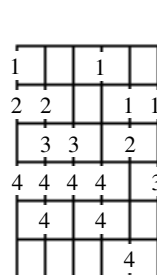
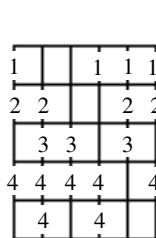
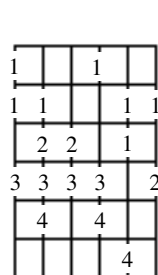
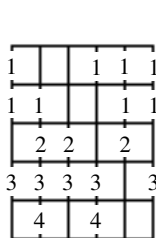
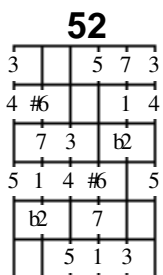
52

b3



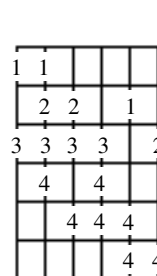
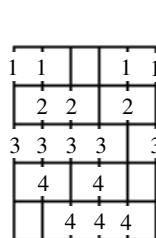
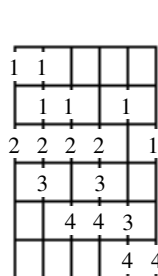
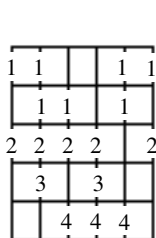
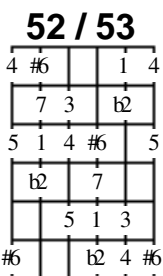
52

3



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4



53

b5

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5

631

b6

631

6

641

b7

641

7

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major b2, b3, b4 scale (= major b2, #2, no 4)

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1

1		#2	5	1
b2	7	3		b2
5	1	6		
#2	b2		#2	
3	6	5	7	3

1		#2	5	1
b2	7	3		b2
5	1	6		
#2	b2		#2	
3	6	5	7	3

1		1	1	1
1	1	1	1	1
2	2	2		
3	3			3
4	4	4	4	4

1		1		
1	1	1		1
2	2	1		
3	3		2	
4	4	4	3	3

1		1	1	1
2	2	2	2	2
3	3	3	3	
4	4			4
4	4	4	4	4

1		1		
2	2	2		1
3	3	3	2	
4	4			3
4	4	4	4	4

42

b2

b2	7	3		b2
5	1	6		
#2	b2		#2	
3	6	5	7	3
	#2	1		

1	1	1		1
1	1	1		
2	2			2
3	3		3	3
	4	4		

1	1	1		
1	1	1		
2	2		1	
3	3	3	2	2
	4		3	

1	1	1		1
2	2	2		
3	3			3
4	4	4	4	4
	4	4		

1	1	1		
2	2			1
3	3			2
4	4	4	3	3
	4		4	

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2

5	1			5
b2	7	#2		
6	5	1	3	6
#2	b2			
7	3	6		7

5	1			5
b2	7	#2		
6	5	1	3	6
#2	b2			
7	3	6		7

1	1	1		
1	1			1
2	2	2	2	2
	3	3		
4	4	4	4	

1	1			
1	1			1
2	2	2	1	1
	3		2	
4	4	4	3	

1	1	1		
2	2			2
3	3		3	3
	4		4	
4	4	4	4	

1	1			
2	2			1
3	3	3	2	2
	4		3	
4	4	4	4	

52

b3

#2	b2		#2	
3	6	5	7	3
	#2	1		
7	3	6	b2	
5	1			5

1	1	1		1
1	1	1	1	1
	2	2		
3	3	3	3	
4	4			4

1	1			
1	1	1	1	1
	2		1	
3	3	3	2	
4	4			3

1	1	1		1
2	2	2	2	2
	3	3		
4	4	4	4	
4	4			4

1	1			
2	2	2	1	1
	3		2	
4	4	4	3	
4	4			4

52

3

3	6	5	7	3
	#2	1		
7	3	6	b2	
5	1			5
	b2	7	#2	

1	1	1	1	1
	1	1		
2	2	2	2	
3	3			3
	4	4	4	

1	1	1		
	1	1		
2	2	2	1	
3	3			2
	4	4	3	

1	1	1	1	1
	2	2		
3	3	3	3	
4	4			4
4	4	4	4	

1	1	1		
	2			1
3	3	3	2	
4	4			3
	4	4	4	

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4

	#2	1		
7	3	6	b2	
5	1			5
	b2	7	#2	
6	5	1	3	6

	1	1		
1	1	1	1	
2	2			2
	3	3	3	
4	4	4	4	4

	1			
1	1	1	1	
2	2			1
	3	3	2	
4	4	4	3	3

	1	1		
2	2	2	2	
3	3			3
	4	4	4	
4	4	4	4	4

	1			
2	2	2	1	
3	3			2
	4	4	3	
4	4	4	4	4

major #2 scale

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1

1	4	#2	5	1
	7	3		
5	1	4	6	
#2				#2
3	6	5	7	3
4	#2	1	4	

1	4	#2	5	1
	7	3		
5	1	4	6	
#2				#2
3	6	5	7	3
4			1	4

1	1	1	1	1
	1	1		
2	2	2	2	2
3				3
4	4	4	4	4

1	1	1		
	1	1		
2	2	2	1	
3				2
4	4	4	3	3
			4	4

1	1	1	1	1
	2	2		
3	3	3	3	
4				4
4	4	4	4	4

1	1	1		
	2	2		
3	3	3	2	
4				3
4	4	4	4	4
			4	4

42

b2

	7	3		
5	1	4	6	
#2				#2
3	6	5	7	3
4	#2	1	4	
	7	3	6	

	1	1		
1	1	1	1	
2				2
3	3		3	3
4	4	4	4	4

	1	1		
1	1	1	1	
2				1
3	3		3	2
4	4		3	3

	1	1		
2	2	2	2	2
3				3
4	4	4	4	4
4	4	4	4	4

	1	1		
2	2	2	1	
3				2
4	4	4	3	3
4	4	4	4	4

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2

	5	1	4	6
#2				#2
3	6	5	7	3
4	#2	1	4	
	7	3	6	
5	1	4		5
		7	#2	
6	5	1	3	6
	#2		4	
7	3	6		7

	5	1	4	6
#2				#2
3	6	5	7	3
4	#2	1	4	
	7	3	6	
5	1	4		5

	1	1	1	1
1				1
2	2	2	2	2
3	3		3	3
4	4	4	4	

	1	1	1	
1				1
2	2	2	1	1
3	3		2	2
4	4	4		4

	1	1	1	1
2				2
3	3		3	3
4	4	4	4	4
4	4	4		

	1	1	1	
2				1
3	3		3	2
4	4		3	3
4	4	4		4

52

b3

#2				#2
3	6	5	7	3
4	#2	1	4	
	7	3	6	
5	1	4		5
		7	#2	

	1			1
1	1	1	1	1
2	2	2	2	2
3	3	3		
4	4	4	4	4

	1			
1	1	1	1	1
2	2		1	1
3	3	3		
4	4	4		3
				4

	1			1
2	2	2	2	2
3	3		3	3
4	4	4		
4	4	4		4

	1			
2	2	2	1	1
3	3		2	2
4	4	4		
4	4	4		4
				4

52

3

3	6	5	7	3
4	#2	1	4	
	7	3	6	
5	1	4		5
		7	#2	
6	5	1	3	6

	1	1	1	1
1	1	1	1	1
2	2	2		
3	3	3		3
			4	4

	1	1	1	
1	1	1	1	1
2	2	2		
3	3	3		2
			4	3
			4	4

	1	1	1	1
2	2	2	2	2
3	3	3		
4	4	4		4
			4	4

	1	1	1	
2	2		1	1
3	3	3		
4	4	4		3
			4	4
			4	4

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4

4	#2	1	4	
	7	3	6	
5	1	4		5
		7	#2	
6	5	1	3	6
	#2		4	

	1	1	1	1
1	1	1		
2	2	2		2
			3	3
4	4	4	4	4

	1	1		
1	1	1		
2	2	2		1
			3	2
4	4	4	3	3
			4	

	1	1	1	1
2	2	2		
3	3	3		3
			4	4
4	4	4	4	4

	1	1		
2	2	2		
3	3	3		2
			4	3
4	4	4	4	4
			4	

major #2b5 scale

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1

1	4	#2	1
b5	7	3	
	1	4	6
#2		b5	#2
3	6		7 3
4	#2	1	4
b5	7	3	6

1	4	#2	1
b5	7	3	
	1	4	6
#2		b5	#2
3	6		7 3
4			1 4

1	1	1	1
	1	1	1
	2	2	2
3		3	3
4	4		4 4

1	1	1	
	1	1	
	2	2	1
3		3	2
4	4		3 3
			4 4

1	1	1	1
	2	2	2
	3	3	3
4		4	4
4	4		4 4

1	1	1	
	2	2	2
	3	3	2
4		4	3
4	4		4 4
			4 4

42

b2

b5	7	3	
	1	4	6
#2		b5	#2
3	6		7 3
4	#2	1	4
b5	7	3	6

1	1	1	
	1	1	1
2		2	2
3	3		3 3
4	4		4 4

1	1	1	
	1	1	1
2		2	1
3	3		2 2
4	4		3 3
			4

1	1	1	
	2	2	2
3		3	3
4	4		4 4
4	4		4 4

1	1	1	
	2	2	1
3		3	2
4	4		3 3
4	4		4 4
			4

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2

#2		b5	#2
3	6		7 3
4	#2	1	4
b5	7	3	6
	1	4	
	b5	7	#2
6		1	3
	#2		4
7	3	6	b5

#2		b5	#2
3	6		7 3
4	#2	1	4
b5	7	3	6
	1	4	

1	1	1	
	1	1	1
2	2		2 2
3	3		3 3
4	4	4	4

1	1		
	1	1	1
2	2		1 1
3	3		2 2
4	4	4	4
			3

1	1	1	
	2	2	2
3	3		3 3
4	4		4 4
4	4	4	4

1	1		
	2	2	1
3	3		2 2
4	4		3 3
4	4	4	4
			4

52

b3

#2		b5	#2
3	6		7 3
4	#2	1	4
b5	7	3	6
	1	4	
	b5	7	#2

1	1	1	1
	1	1	1
2	2		2 2
3	3	3	3
4	4		

1	1	1	
	1	1	1
2	2		1 1
3	3	3	3
4	4		4

1	1	1	1
	2	2	2
3	3		3 3
4	4	4	4
4	4		

1	1	1	
	2	2	1 1
3	3		2 2
4	4	4	4
4	4		3
			4

52

3

3	6		7 3
4	#2	1	4
b5	7	3	6
	1	4	
	b5	7	#2
6		1	3
			6

1	1	1	1
	1	1	1
2	2	2	2
	3	3	
	4	4	4

1	1		
	1	1	1
2	2	2	2
	3	3	
	4	4	3
			4 4

1	1	1	1
	2	2	2
3	3	3	3
	4	4	
	4	4	4

1	1		
	2	2	1 1
3	3	3	3
	4	4	
	4	4	4
			4 4

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4

4	#2	1	4
b5	7	3	6
	1	4	
	b5	7	#2
6		1	3
	#2		4

1	1	1	1
	1	1	1
	2	2	
	3	3	3
4		4	4
			4

1	1		
	1	1	1
	2	2	
	3	3	2
4		4	3
			4

1	1	1	1
	2	2	2
	3	3	
	4	4	4
4		4	4

1	1		
	2	2	2
	3	3	
	4	4	3
4		4	4
			4

major #2#5 scale

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1

1	4	#2	1
	7	3	#5
	1	4	6
#2	#5		#2
3	6		7
4	#2	#5	1

1	4	#2	1
	7	3	#5
	1	4	6
#2	#5		#2
3	6		7
4		#5	1

1	1	1	1
	1	1	1
	2	2	2
3	3		3
4	4		4

1	1	1	
	1	1	1
	2	2	1
3	3		2
4	4		3

1	1	1	1
	2	2	2
	3	3	3
4	4		4
4	4		4

1	1	1	
	2	2	1
	3	3	2
4	4		3
4	4		4

42

b2

	7	3	6
	1	4	
#5		7	#2
6		1	3
	#2	#5	4
7	3	6	
1	4	#2	1
	7	3	#5
	1	4	6
#2	#5		#2

	7	3	#5
	1	4	6
#2	#5		#2
3	6		7
4	#2	#5	1
	7	3	6

	1	1	1
	1	1	1
2	2		2
3	3		3
4	4	4	4

	1	1	
	1	1	1
2	2		1
3	3		2
4	4	4	3

	1	1	1
	2	2	2
3	3		3
4	4		4
4	4	4	4

	1	1	
	2	2	1
3	3		2
4	4		3
4	4	4	4

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2

	1	4	6
#2	#5		#2
3	6		7
4	#2	#5	1
	7	3	6
	1	4	
#5		7	#2
6		1	3
	#2	#5	4
7	3	6	

	1	4	6
#2	#5		#2
3	6		7
4	#2	#5	1
	7	3	6
	1	4	

	1	1	1
1	1		1
2	2		2
3	3	3	3
4	4	4	

	1	1	
1	1		1
2	2		1
3	3	3	2
4	4	4	

	1	1	1
2	2		2
3	3		3
4	4	4	4
4	4	4	

	1	1	
2	2		1
3	3		2
4	4	4	3
4	4	4	

52

b3

#2	#5		#2
3	6		7
4	#2	#5	1
	7	3	6
	1	4	
#5		7	#2
6		1	3
	#2	#5	4
7	3	6	

#2	#5		#2
3	6		7
4	#2	#5	1
	7	3	6
	1	4	
#5		7	#2

1	1		1
1	1		1
2	2	2	2
3	3	3	
4	4		

1	1		
1	1		1
2	2	2	1
3	3	3	
4	4		4

1	1		1
2	2		2
3	3	3	3
4	4	4	
4	4		

1	1		
2	2		1
3	3	3	2
4	4	4	
4	4		4

52

3

3	6		7
4	#2	#5	1
	7	3	6
	1	4	
#5		7	#2
6		1	3

3	6		7
4	#2	#5	1
	7	3	6
	1	4	
#5		7	#2
6		1	3

1	1		1
1	1		1
2	2	2	
3	3		
4	4	4	4

1	1		
1	1		1
2	2	2	
3	3		
4	4	4	3

1	1		1
2	2	2	2
3	3	3	
4	4		
4	4	4	4

1	1		
2	2	2	1
3	3	3	
4	4		
4	4	4	4

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4

4	#2	#5	1
	7	3	6
	1	4	
#5		7	#2
6		1	3
	#2	#5	4

4	#2	#5	1
	7	3	6
	1	4	
#5		7	#2
6		1	3
	#2	#5	4

1	1	1	1
	1	1	1
2	2		
3		3	3
4		4	4

1	1	1	
	1	1	1
2	2		
3		3	2
4		4	3

1	1	1	1
	2	2	2
	3	3	
4		4	4
4		4	4

1	1	1	
	2	2	2
	3	3	
4		4	3
4		4	4

53

b5

53 / 631

5

631

b6

631

6

641

b7

641

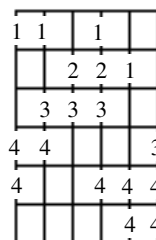
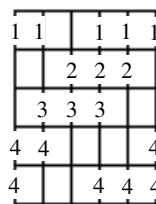
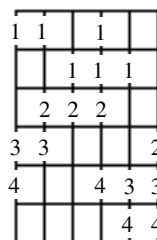
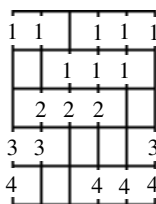
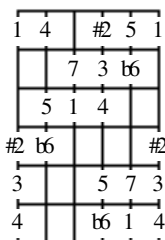
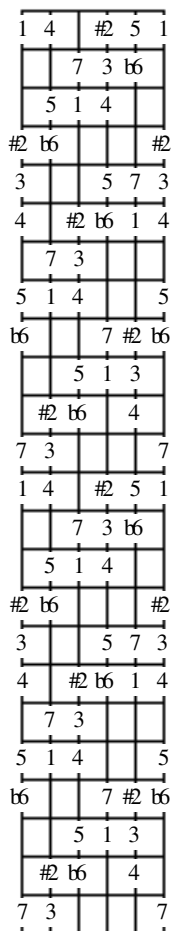
7

Each puzzle is a 4x4 grid. The symbols #2, #5, #6, and #7 are placed in specific cells, and the numbers 1, 2, 3, 4, 5, 6, and 7 are placed in the remaining cells. The puzzles are organized into groups labeled b5, 5, b6, 6, b7, and 7. Each group contains a single puzzle and a set of four related puzzles. The puzzles are variations of a 4x4 grid with specific numbers and symbols placed in different positions.

major #2b6 scale

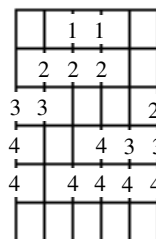
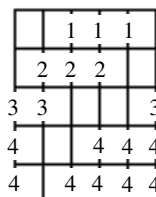
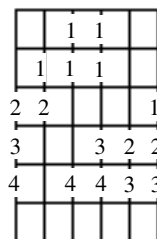
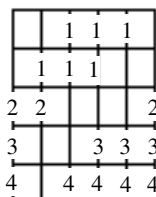
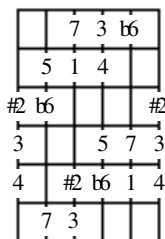
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1



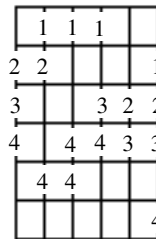
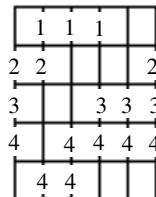
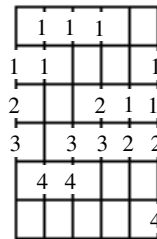
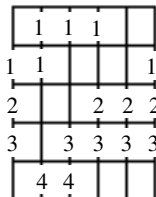
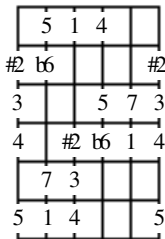
42

b2



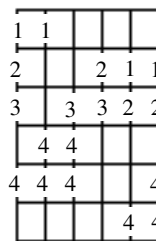
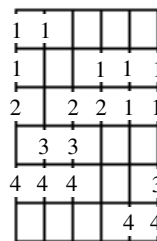
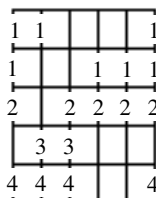
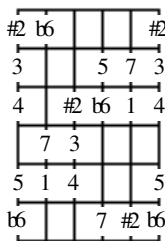
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2



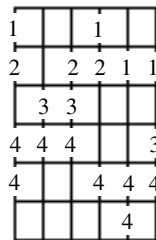
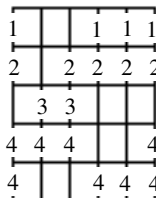
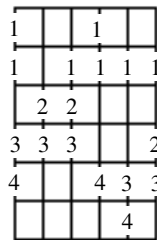
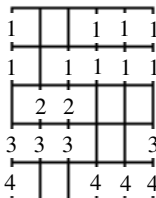
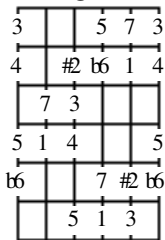
52

b3



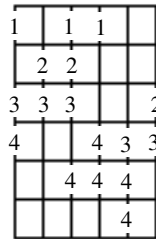
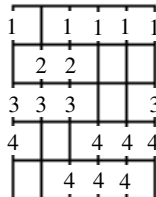
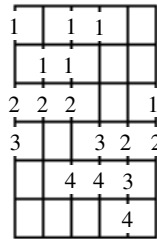
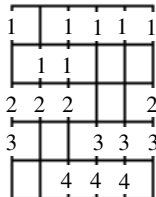
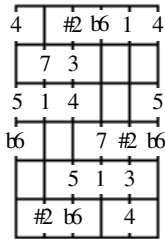
52

3



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4

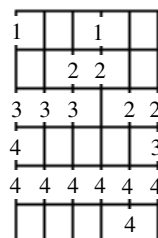
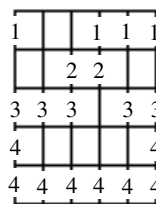
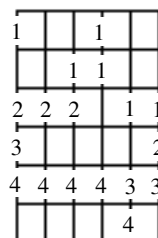
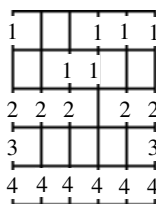
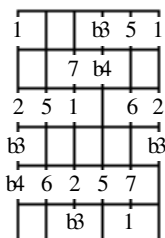
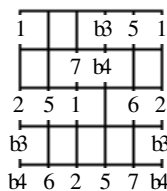


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major b3, b4 scale (= 1, 2, #2, 3, 5, 6, 7)

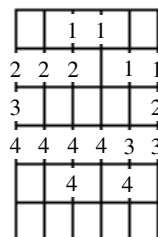
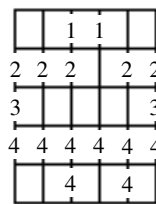
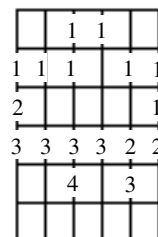
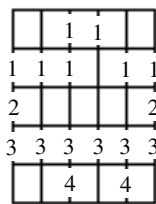
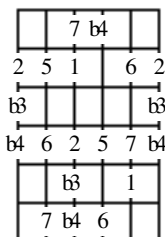
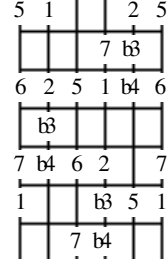
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1



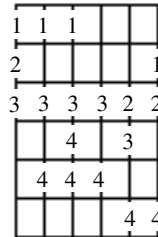
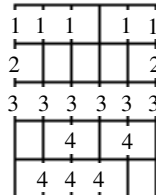
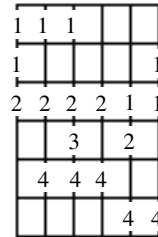
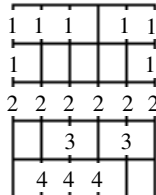
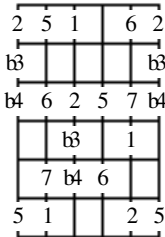
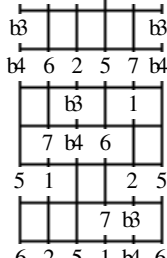
42

b2



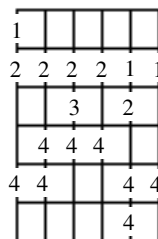
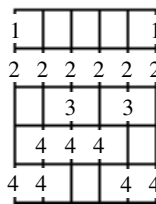
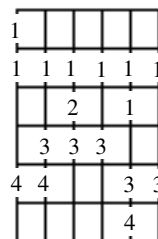
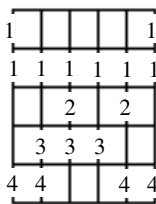
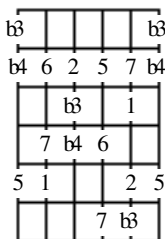
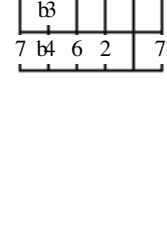
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2



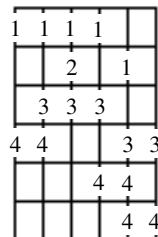
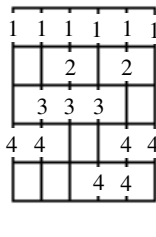
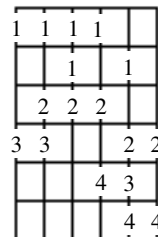
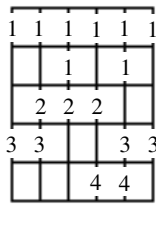
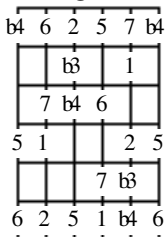
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b3



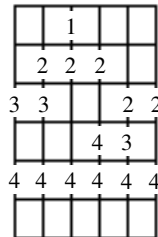
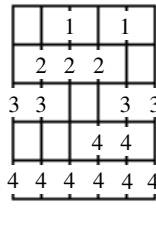
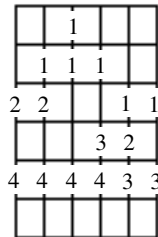
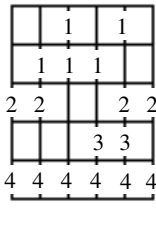
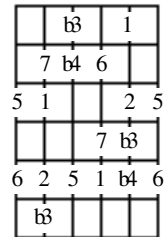
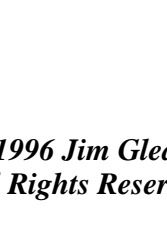
52

3



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4

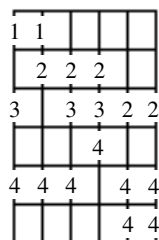
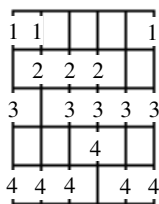
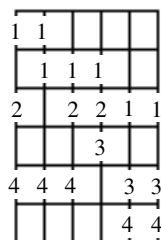
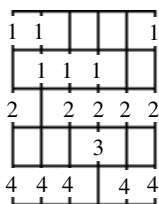
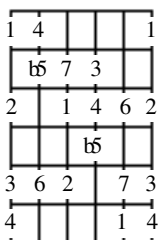
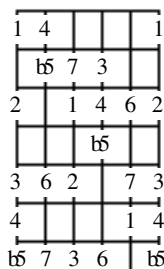


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	b5					
	5	<p>53 / 631 5 1 2 5 7 b3 6 2 5 1 b4 6 b3 7 b4 6 2 7 1 b3 5 1</p>	<p>1 1 1 1 1 1 2 2 2 2 2 2 3 4 4 4 4 4</p>	<p>1 1 1 1 1 1 2 2 2 2 1 1 3 4 4 4 4 3 4 4</p>	<p>1 1 1 1 2 2 3 3 3 3 3 3 4 4 4 4 4 4</p>	<p>1 1 1 1 2 1 3 3 3 3 2 2 4 4 4 4 4 4 4 4</p>
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	b7					
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major b5 scale

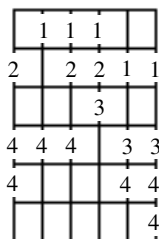
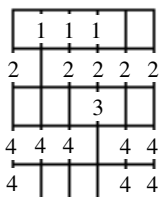
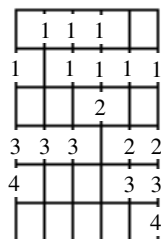
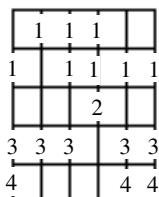
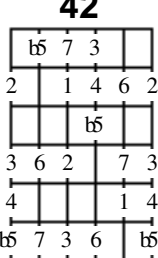
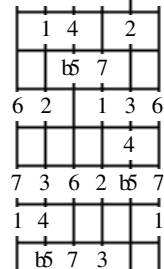
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1



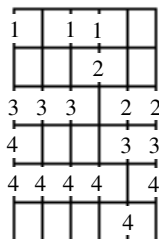
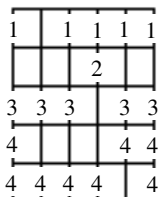
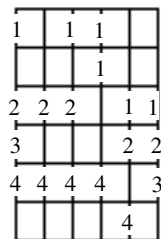
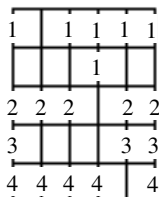
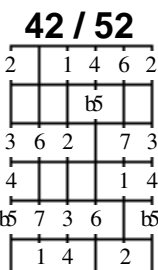
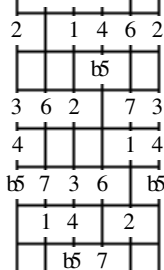
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b2



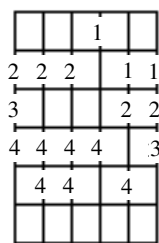
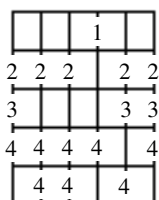
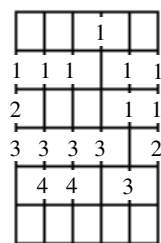
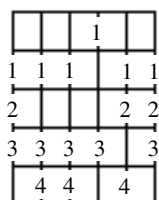
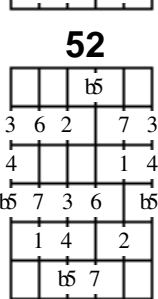
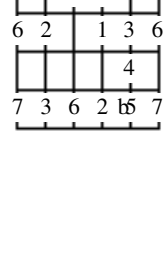
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2



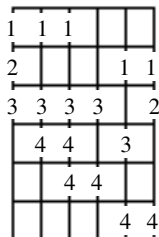
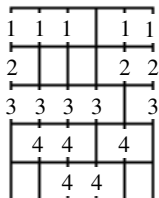
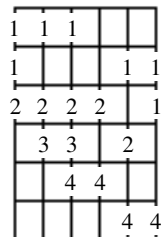
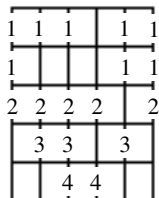
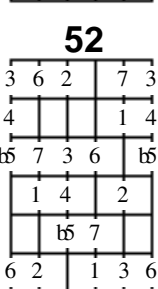
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b3



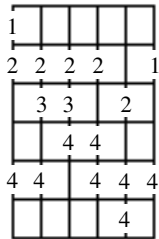
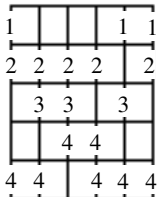
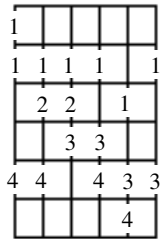
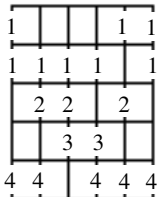
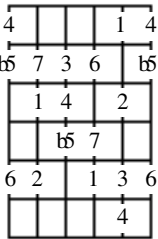
52

3



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4



<p>1 4 1</p> <p>b5 7 3</p> <p>2 1 4 6 2</p> <p> b5</p> <p>3 6 2 7 3</p> <p>4 1 4</p> <p>b5 7 3 6 b5</p> <p>1 4 2</p> <p>b5 7</p> <p>6 2 1 3 6</p> <p> 4</p> <p>7 3 6 2 b5 7</p> <p>1 4 1</p> <p>b5 7 3</p> <p>2 1 4 6 2</p> <p> b5</p> <p>3 6 2 7 3</p> <p>4 1 4</p> <p>b5 7 3 6 b5</p> <p>1 4 2</p> <p>b5 7</p> <p>6 2 1 3 6</p> <p> 4</p> <p>7 3 6 2 b5 7</p>	53	<p>b5 7 3 6 b5</p> <p>1 4 2</p> <p>b5 7</p> <p>6 2 1 3 6</p> <p> 4</p> <p>7 3 6 2 b5 7</p>	<p>1 1 1 1 1</p> <p>1 1 1</p> <p>2 2</p> <p>3 3 3 3 3</p> <p> 4</p>	<p>1 1 1 1</p> <p>1 1 1</p> <p>2 2</p> <p>3 3 2 2</p> <p> 3</p> <p> 4 4</p>	<p>1 1 1 1 1</p> <p>2 2 2</p> <p>3 3</p> <p>4 4 4 4 4</p> <p> 4</p>	<p>1 1 1 1</p> <p>2 2 1</p> <p>3 3</p> <p>4 4 4 3 3</p> <p> 4</p> <p> 4 4</p>
	b5	53 / 631	<p>1 1 1</p> <p>1 1</p> <p>2 2 2 2 2</p> <p> 3</p> <p>4 4 4 4 4 4</p>	<p>1 1</p> <p>1 1</p> <p>2 2 2 1 1</p> <p> 2</p> <p>4 4 4 4 3 3</p> <p> 4</p>	<p>1 1 1</p> <p>2 2</p> <p>3 3 3 3 3</p> <p> 4</p> <p>4 4 4 4 4 4</p>	<p>1 1</p> <p>2 2</p> <p>3 3 3 2 2</p> <p> 3</p> <p>4 4 4 4 4 4</p> <p> 4</p>
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	b6	631	<p>1 1 1 1 1</p> <p>1</p> <p>2 2 2 2 2 2</p> <p>3 3 3</p> <p>4 4 4</p>	<p>1 1 1</p> <p>1</p> <p>2 2 2 2 1 1</p> <p>3 3 2</p> <p>4 4 4 4 4</p>	<p>1 1 1 1 1</p> <p>2</p> <p>3 3 3 3 3 3</p> <p>4 4 4</p> <p>4 4 4</p>	<p>1 1 1</p> <p>1</p> <p>3 3 3 3 2 2</p> <p>4 4 3</p> <p>4 4 4 4 4</p>
	6	641	<p>1 1 1 1 1</p> <p>2 2 2</p> <p>3 3 3</p> <p>4 4 4 4 4</p>	<p>1 1 1 1 1</p> <p>2 2 1</p> <p>3 3 3</p> <p>4 4 4 3 3</p>	<p>2 2 2 2 2 2</p> <p>3 3 3</p> <p>4 4 4 4 4</p>	<p>2 2 2 2 1 1</p> <p>3 3 2</p> <p>4 4 4 4 4</p>
	b7	641	<p>1 1 1 1 1</p> <p>2 2 2</p> <p>3 3 3 3 3</p> <p>4</p>	<p>1 1 1 1</p> <p>2 2 2</p> <p>3 3 3 2 2</p> <p>4</p> <p>4 4</p>	<p>1 1 1 1 1 1</p> <p>2 2 2</p> <p>3 3 3</p> <p>4 4 4 4 4</p>	<p>1 1 1 1</p> <p>2 2 1</p> <p>3 3 3</p> <p>4 4 4 3 3</p> <p>4</p> <p>4 4</p>
	7					

major b5, b6 scale

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1

1	4			1
b5	7	3	b6	
2		1	4	2
b6		b5		
3	2		7	3
4		b6	1	4
b5	7	3		b6

1	4			1
b5	7	3	b6	
2		1	4	2
b6		b5		
3	2		7	3
4		b6	1	4

1	1			1
1	1	1	1	
2	2	2	2	2
3		3		
4	4	4	4	4

1	1			
1	1	1	1	
2	2	2	2	1
3		3		
4	4		3	3
			4	4

1	1			1
2	2	2	2	
3	3	3	3	3
4		4		
4	4	4	4	4

1	1			
2	2	2	2	1
3	3	3	3	2
4		4		
4	4	4	4	4
			4	4

42

b2

b5	7	3	b6	
2		1	4	2
b6		b5		
	2		1	3
	b6		4	
7	3		2	b5
1	4			1
b5	7	3	b6	

b5	7	3	b6	
2		1	4	2
b6		b5		
3	2		7	3
4		b6	1	4
b5	7	3		b6

1	1	1	1	
1	1	1	1	1
2		2		
3		3		3
4		4	4	4

1	1	1		
1	1	1	1	1
2		2		
3		3		2
4		4	3	3
			4	

1	1	1	1	
2	2	2	2	2
3		3		
4	4	4	4	4
4		4	4	4

1	1	1		
2	2	2	2	1
3		3		
4	4	4	3	3
4		4	4	4
			4	4

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2

b5	7	3	b6	
2		1	4	2
b6		b5		
3	2		7	3
4		b6	1	4
b5	7	3		b6
1	4		2	
b6	b5	7		b6

2		1	4	2
b6		b5		
3	2		7	3
4		b6	1	4
b5	7	3		b6
1	4		2	

1	1	1	1	
1		1		
2		2	2	2
3		3	3	3
4	4	4	4	4

1	1	1		
1		1		
2		2	1	1
3		3	2	2
4	4	4		3
			4	

1	1	1	1	
2		2		
3	3	3	3	3
4		4	4	4
4	4	4		4

1	1	1		
2		2		
3		3	2	2
4		4	3	3
4	4	4		4
			4	

52

b3

b5	7	3	b6	
2		1	4	2
b6		b5		
3	2		7	3
4		b6	1	4
b5	7	3		b6
1	4		2	
b6	b5	7		b6

b5	7	3	b6	
3	2		7	3
4		b6	1	4
b5	7	3		b6
1	4		2	
b6	b5	7		b6

1	1	1		
1	1	1	1	1
2		2	2	2
3	3	3		3
4	4	4	4	

1	1	1		
1	1	1	1	1
2		2	1	1
3	3	3		2
4	4	4	3	
			4	

1	1	1		
2	2	2	2	2
3		3	3	3
4	4	4		4
4	4	4		4

1	1	1		
2	2	2	1	1
3		3	2	2
4	4	4		3
4	4	4		4
			4	

52

3

3	2		7	3
4		b6	1	4
b5	7	3		b6
1	4		2	
b6	b5	7		b6
2		1	3	

1	1	1	1	1
1		1	1	1
2	2	2		2
3	3	3		3
4	4	4	4	4

1	1	1		
1		1	1	1
2	2	2		2
3	3	3		2
4	4	4		3
			4	

1	1	1	1	1
2		2	2	2
3	3	3		3
4	4	4	4	4

1	1	1		
2		2	2	2
3	3	3		3
4	4	4		4
4	4	4		4

1	1	1		
2		2	1	1
3	3	3		2
4	4	4		3
4	4	4		4
			4	

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4

4		b6	1	4
b5	7	3		b6
1	4		2	
b6	b5	7		b6
2		1	3	
	b6		4	

1	1	1	1	1
1	1	1		1
2	2	2		2
3	3	3		3
4	4	4	4	4

1	1	1		
1	1	1	1	1
2	2	2		2
3	3	3		2
4	4	4	3	
			4	

1	1	1	1	1
2	2	2		2
3	3	3		3
4	4	4	4	4

1	1	1		
2	2	2		2
3	3	3		3
4	4	4		4
4	4	4		4

1	1	1		
2	2	2		2
3	3	3		3
4	4	4		4
4	4	4		4
			4	

The image displays 48 4x4 grid diagrams, each representing a unique 3x3x3 Rubik's cube state with a single corner twisted. The grids are organized into a 6x8 grid, with rows and columns labeled by the number of corners in their original position (5, 6, 7) and the parity of the twisted corner (b5, b6, b7).

Row Labels (Left): 5, 6, 7, b5, b6, b7

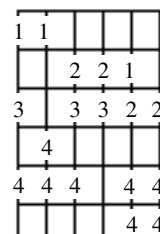
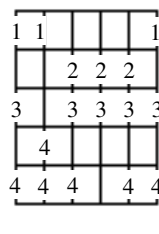
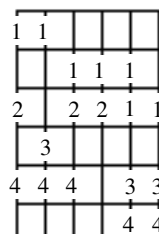
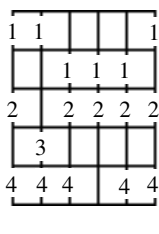
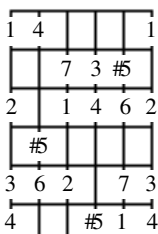
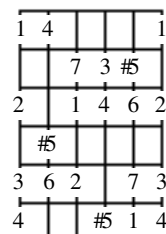
Column Labels (Top): 53, 53 / 631, 631, 631, 641, 641, 7, 7

Each grid contains numbers 1-4 and parity symbols (b5, b6, b7) representing the cube's state. The grids are grouped by the number of corners in their original position (5, 6, 7) and the parity of the twisted corner (b5, b6, b7).

major #5 scale

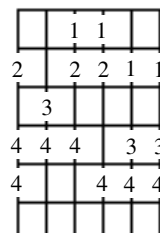
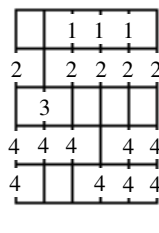
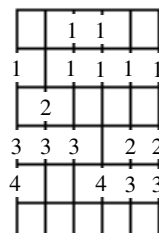
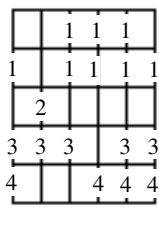
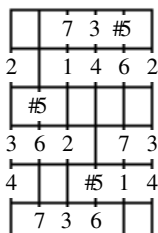
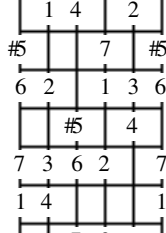
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1



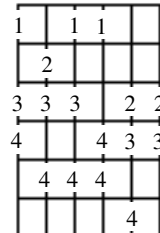
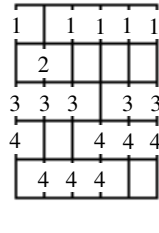
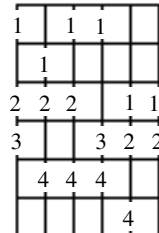
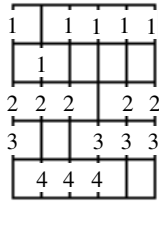
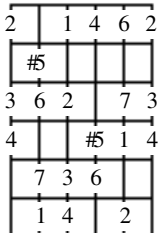
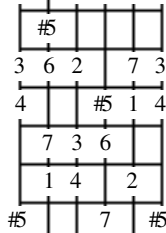
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b2



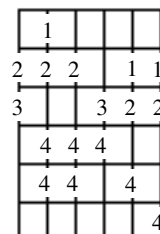
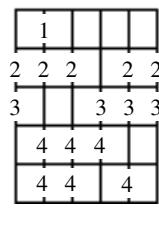
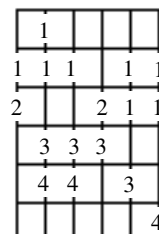
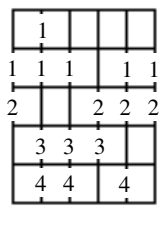
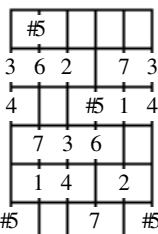
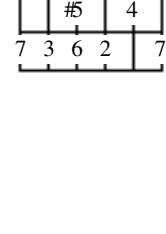
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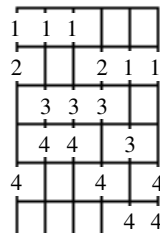
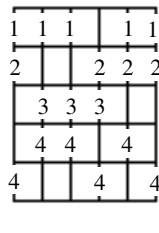
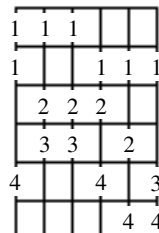
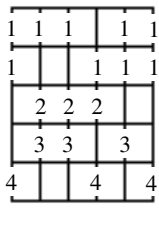
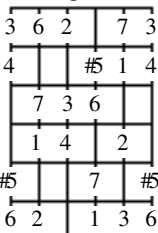
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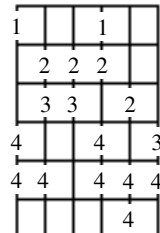
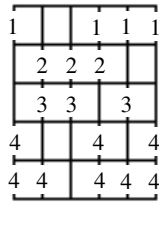
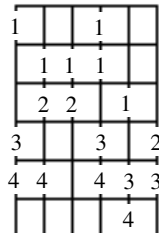
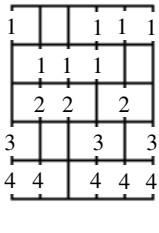
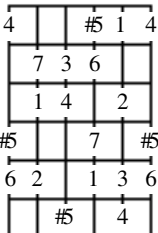
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4



53

b5

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5

631

b6

631

6

641

b7

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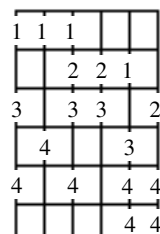
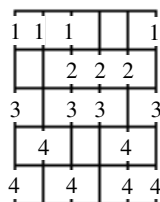
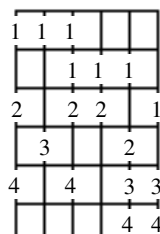
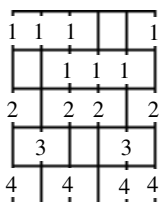
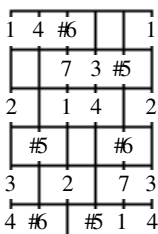
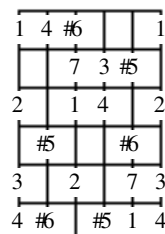
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major #5#6 scale

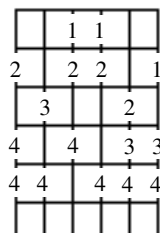
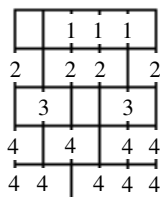
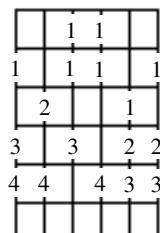
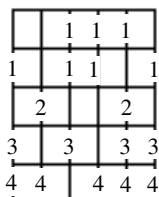
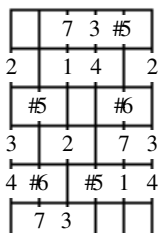
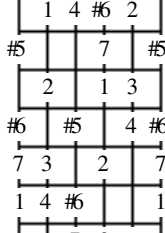
641 / 42

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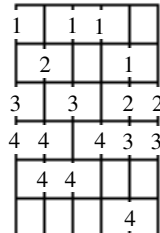
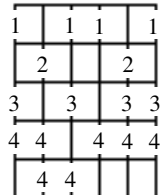
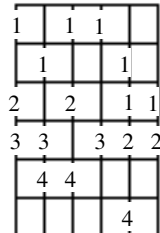
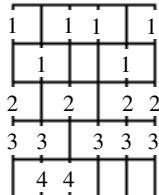
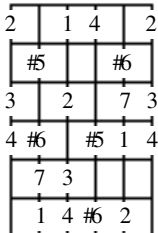
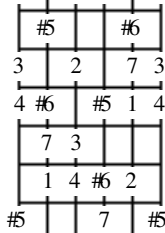
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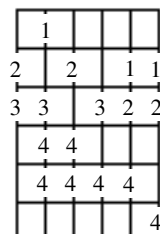
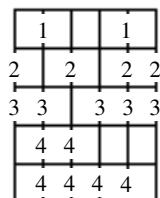
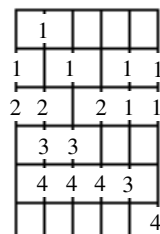
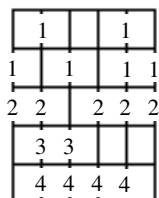
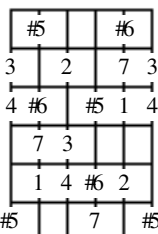
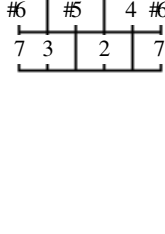
42 / 52

2



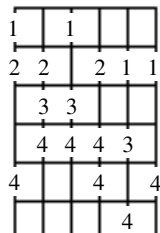
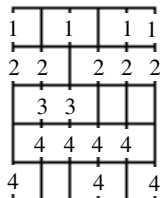
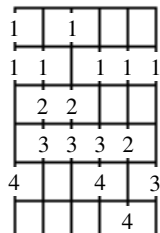
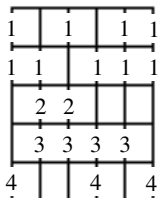
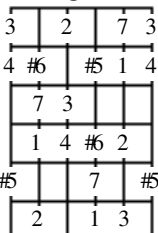
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b3



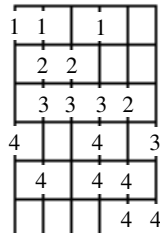
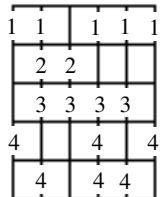
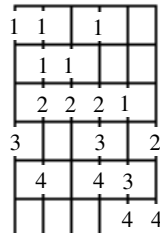
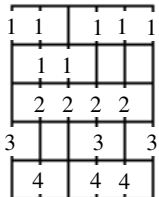
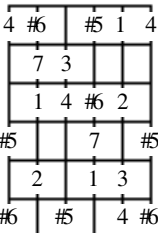
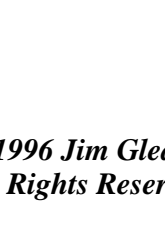
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3



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4



1	1		1	
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		3	3	2
4		4	4	
	4			4
			4	

major b6 scale

641 / 42

1

42

b2

42 / 52

2

52

b3

52

3

52 / 53

4

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major #6 scale

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1

42

b2

42 / 52

2

52

b3

52

3

52 / 53

4

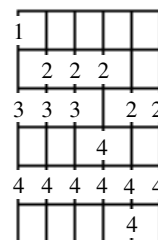
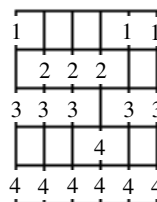
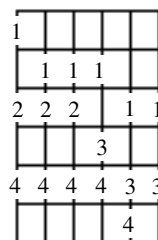
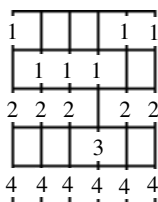
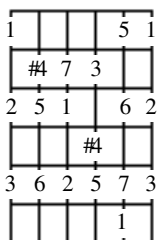
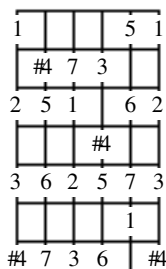
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Lydian mode (major #4)

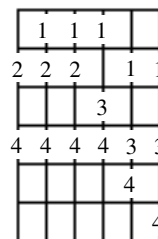
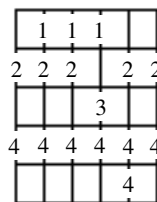
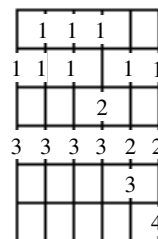
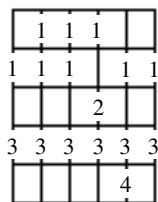
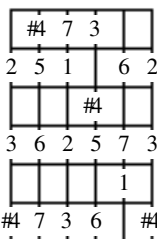
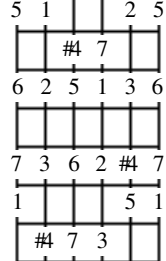
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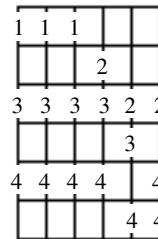
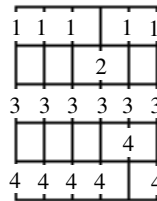
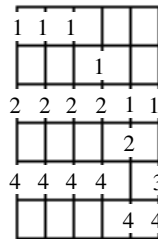
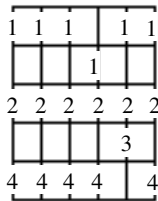
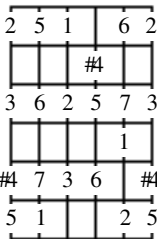
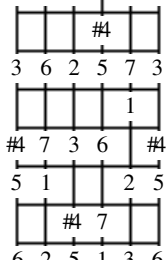
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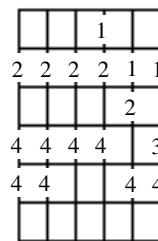
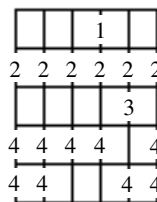
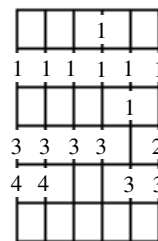
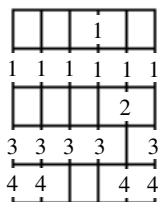
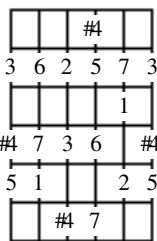
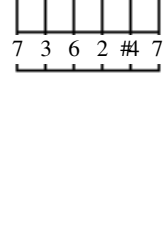
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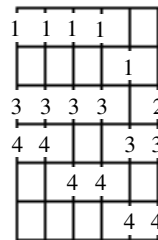
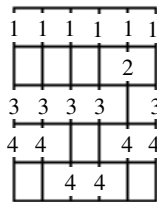
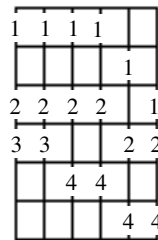
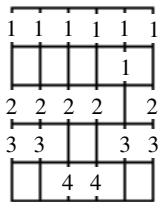
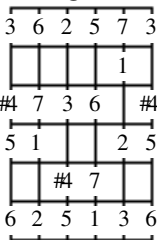
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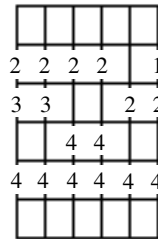
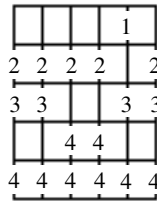
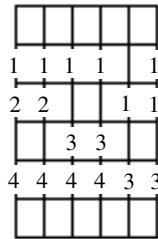
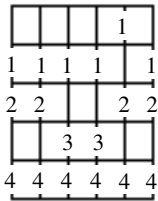
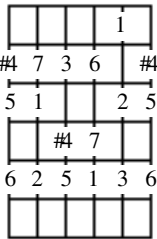
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3



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4



53

b5

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5

631

b6

631

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641

b7

641

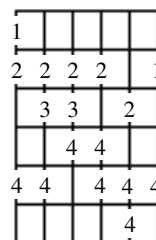
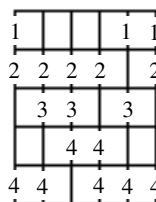
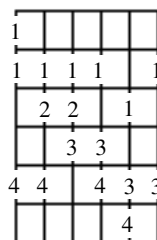
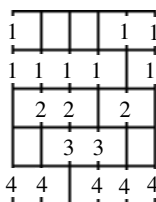
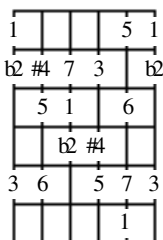
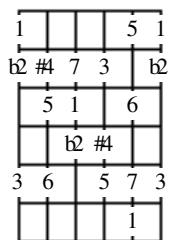
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Lydian b2 scale

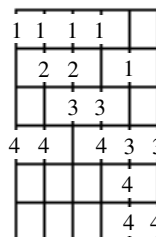
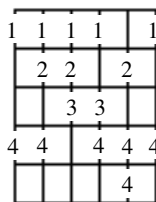
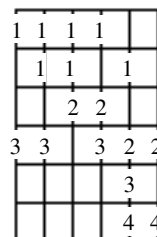
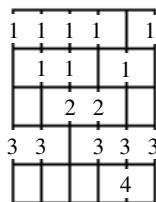
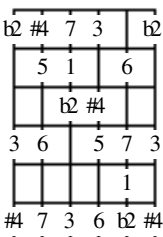
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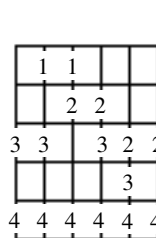
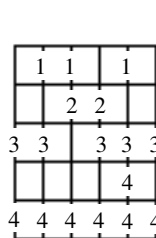
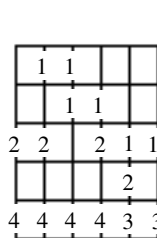
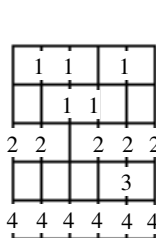
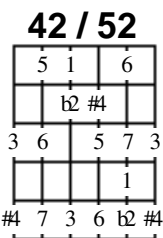
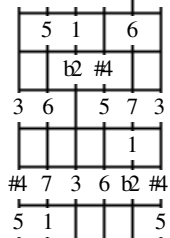
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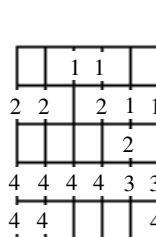
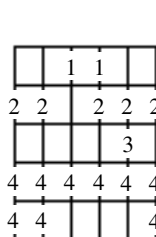
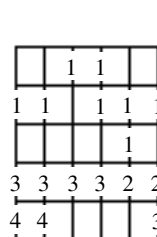
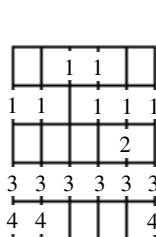
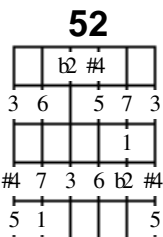
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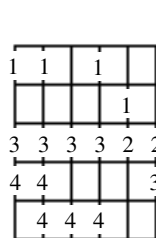
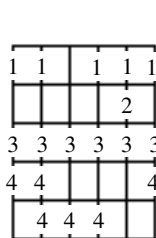
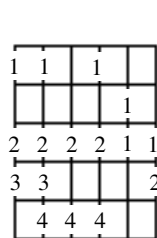
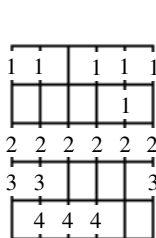
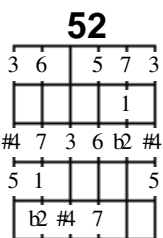
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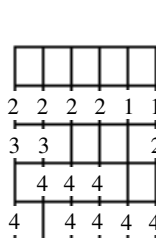
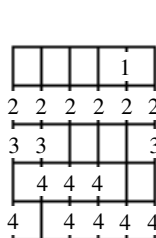
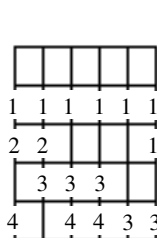
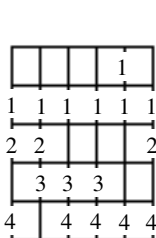
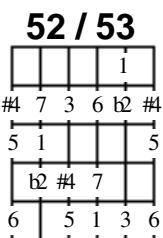
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4



53

b5

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5

631

b6

631

6

641

b7

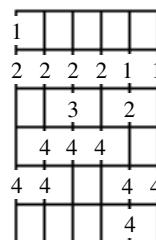
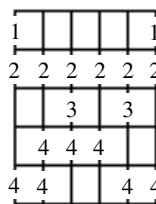
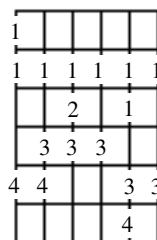
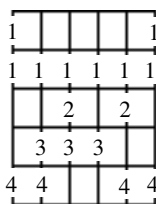
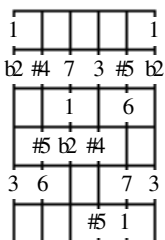
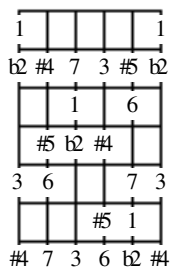
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Lydian b2#5 scale

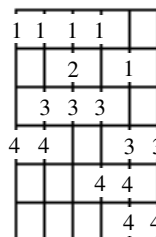
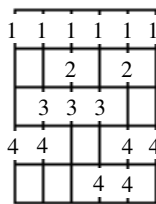
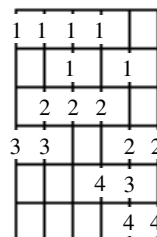
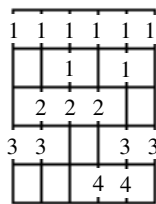
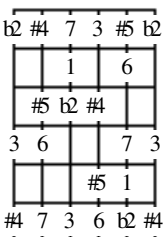
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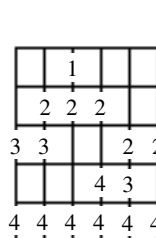
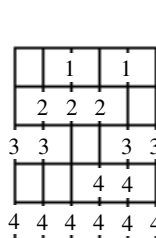
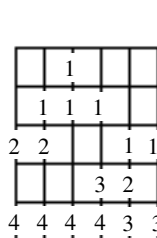
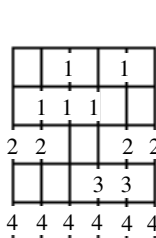
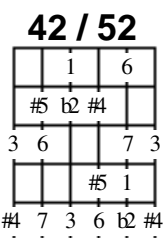
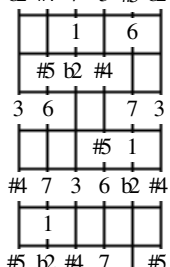
42

b2



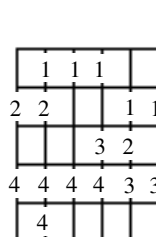
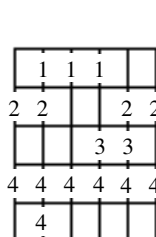
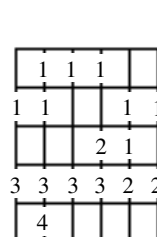
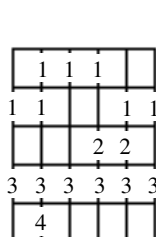
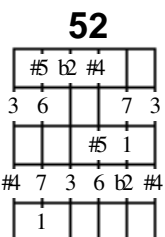
42 / 52

2



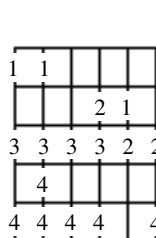
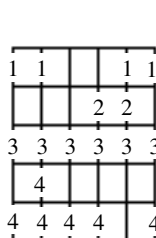
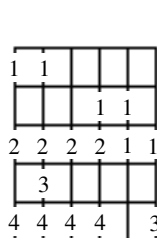
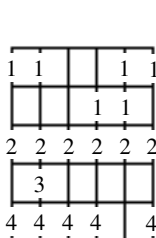
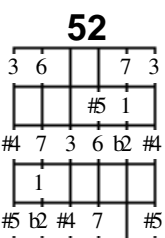
52

b3



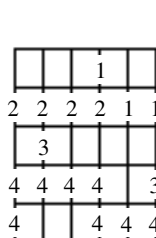
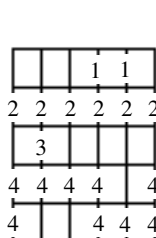
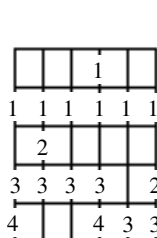
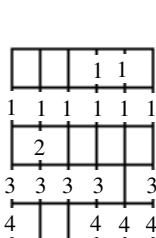
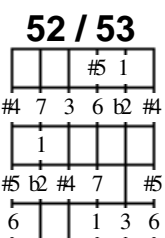
52

3



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4



53

b5

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5

631

b6

631

6

641

b7

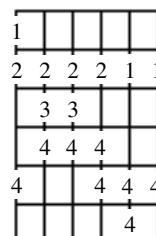
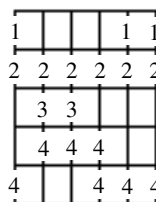
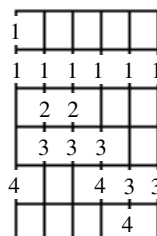
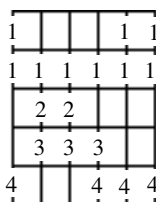
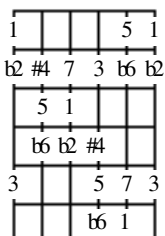
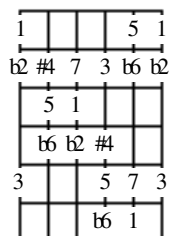
641

7

Lydian b2b6 scale

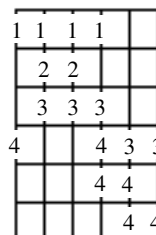
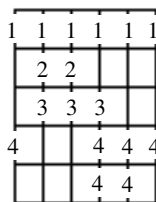
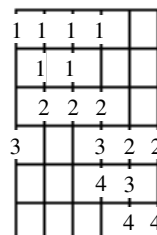
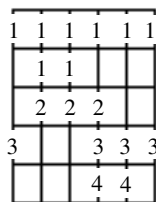
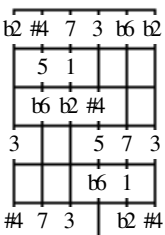
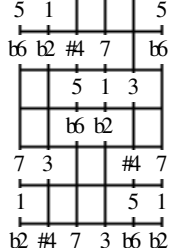
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1



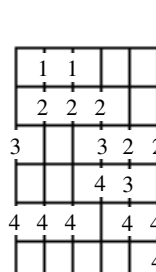
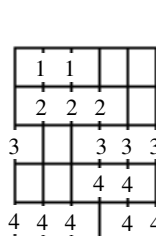
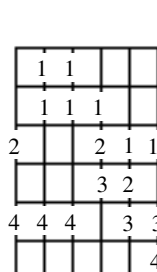
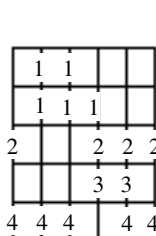
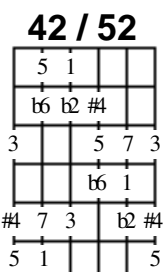
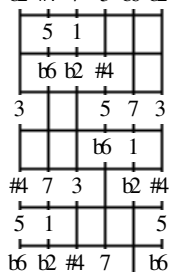
42

b2



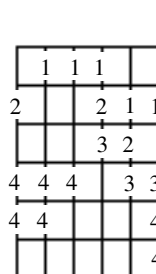
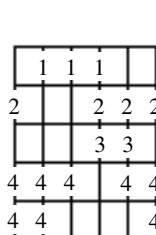
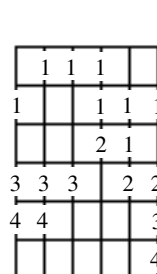
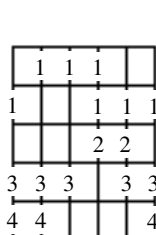
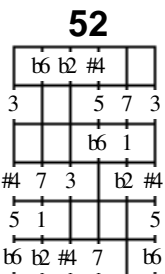
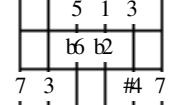
42 / 52

2



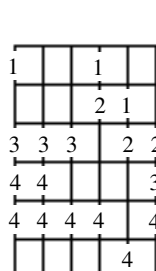
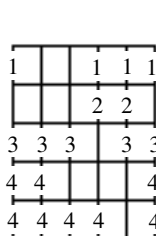
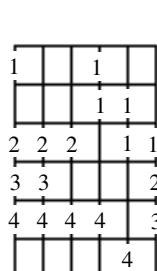
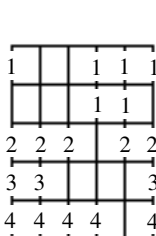
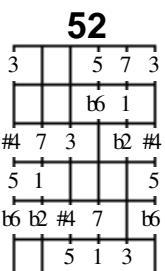
52

b3



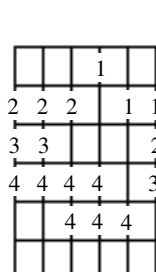
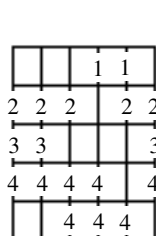
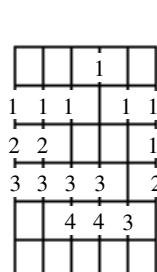
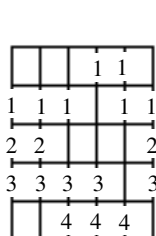
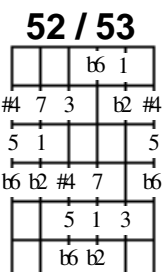
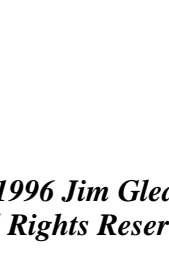
52

3



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4



1	1	1			
2	2				
3	3	3	3		2
		4	4	3	
		4	4		
				4	4

1	1			
2	2	2	2	1
		3	3	2
		4	4	
4	4			4
				4

1	1	1	1	
		2	2	1
		3	3	
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4				4

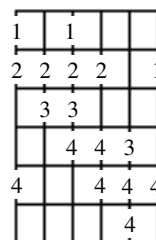
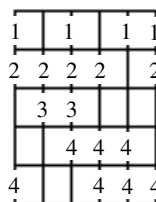
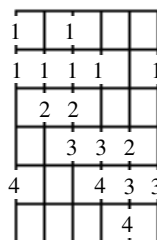
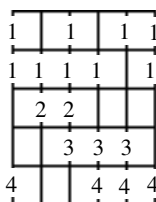
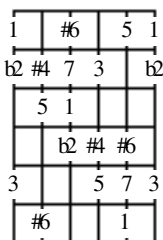
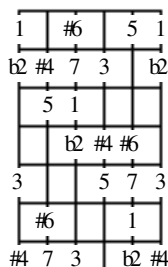
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3				2	2
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	4	4			

1	1			
2			1	1
3	3	3	3	2
	4	4		
	4	4	4	
				4

Lydian b2#6 scale

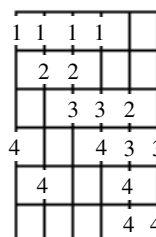
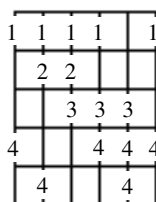
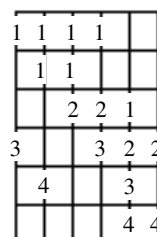
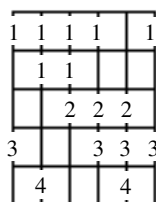
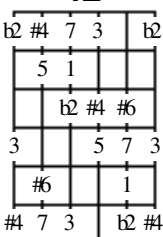
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1



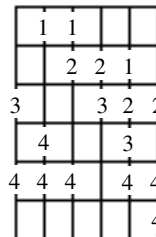
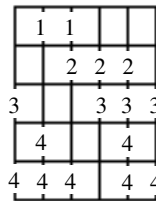
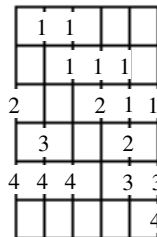
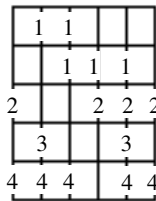
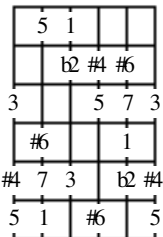
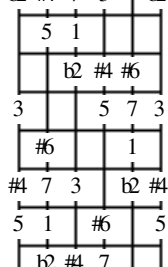
42

b2



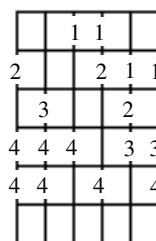
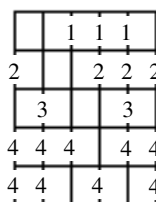
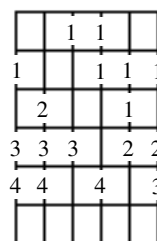
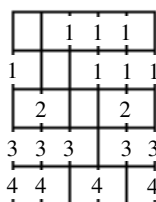
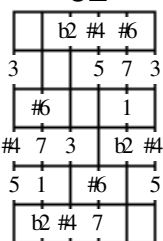
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2



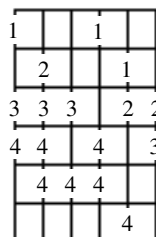
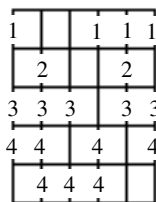
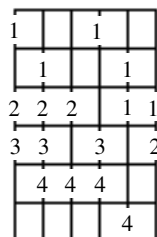
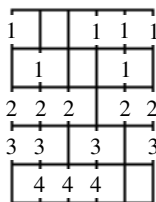
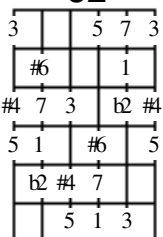
52

b3



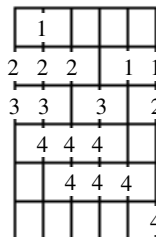
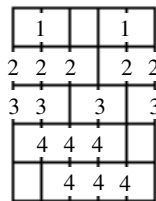
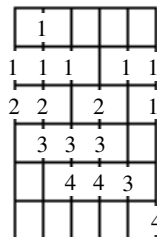
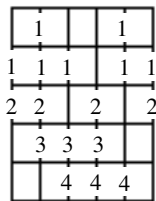
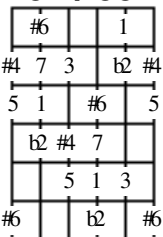
52

3



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4



53

b5

53 / 631

5

631

b6

631

6

641

b7

641

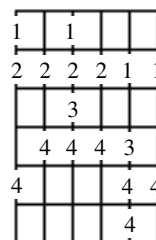
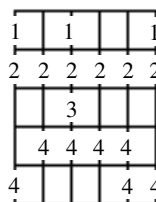
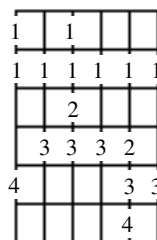
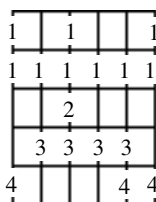
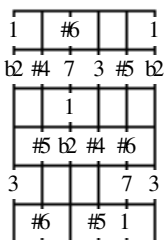
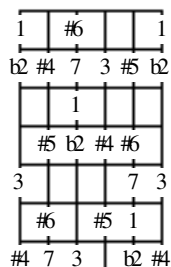
7

Each grid is a 4x4 square. The inner 3x3 square contains numbers. The outer cells (top, bottom, left, right) contain symbols: #, b, or 7. The symbols are placed in the cells immediately adjacent to the 3x3 sub-grid.

Lydian b2#5#6 scale

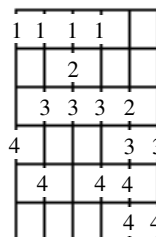
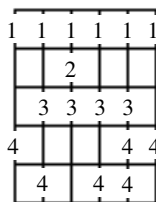
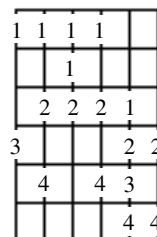
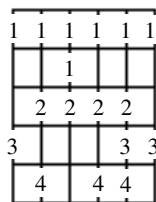
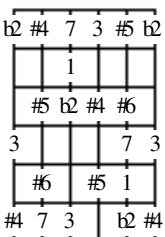
641 / 42

1



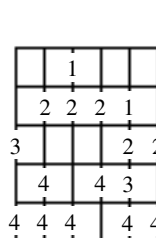
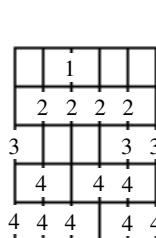
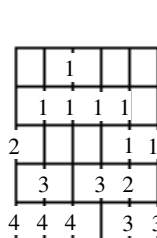
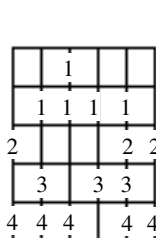
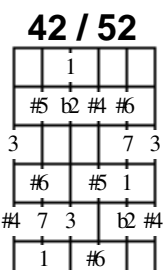
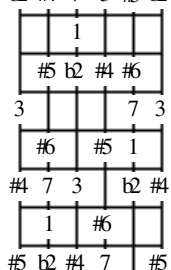
42

b2



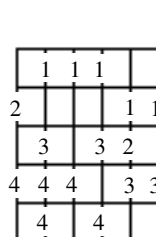
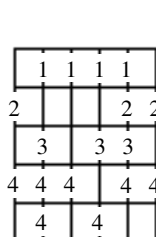
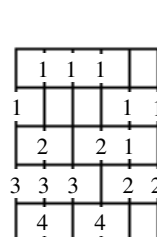
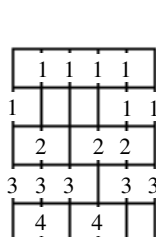
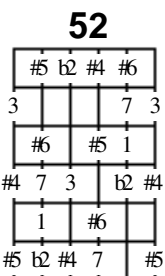
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2



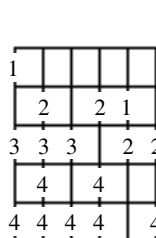
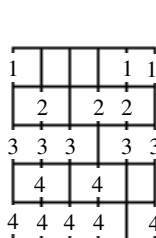
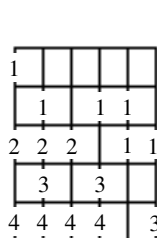
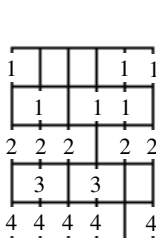
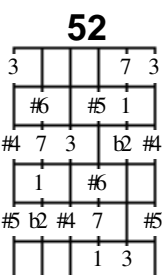
52

b3



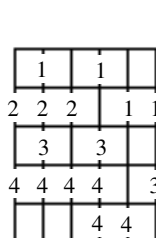
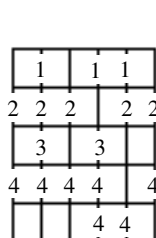
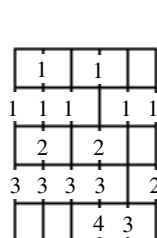
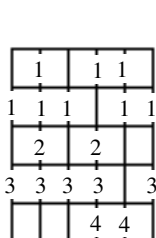
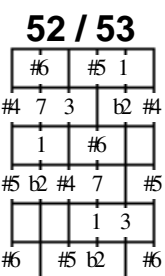
52

3



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4



53

b5

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5

631

b6

631

6

641

b7

641

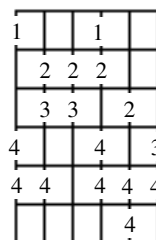
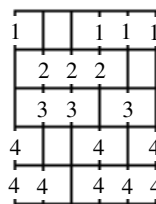
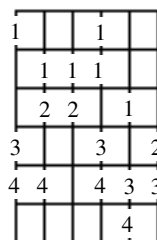
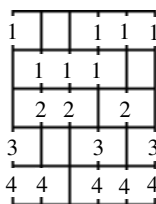
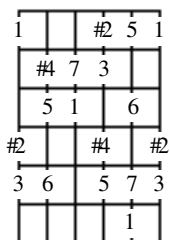
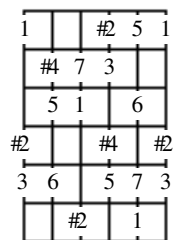
7

The image displays a series of musical notation grids, each consisting of a 4x4 array of cells. Each cell contains a number (1-7) and an accidental (sharp, flat, or natural). The grids are organized into groups labeled **b5**, **5**, **b6**, **6**, **b7**, and **7**. Each group contains a single grid and a set of four grids. The grids represent musical notation for a specific instrument or voice part, with accidentals indicating pitch changes and numbers indicating fingerings or articulation.

Lydian #2 scale

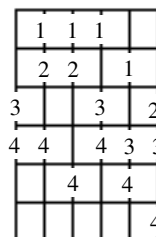
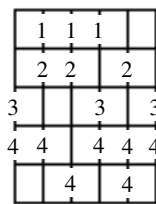
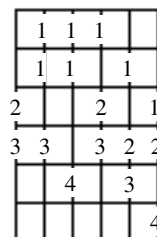
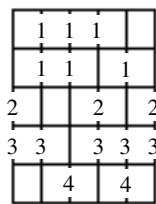
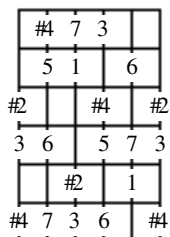
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1



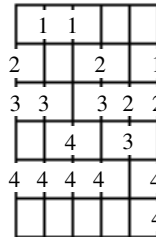
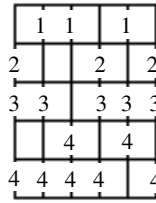
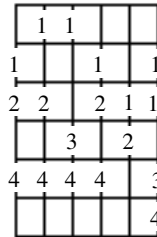
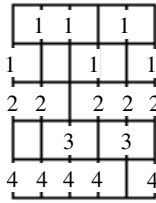
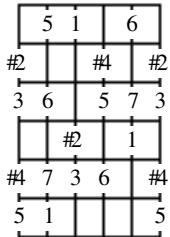
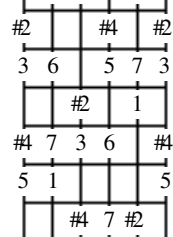
42

b2



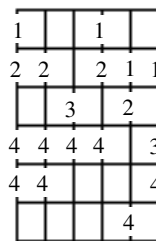
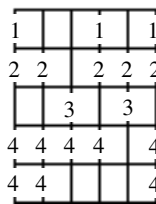
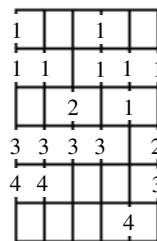
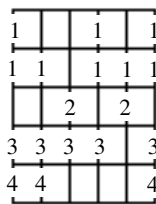
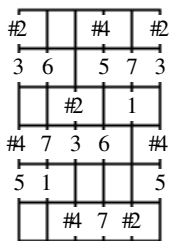
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2



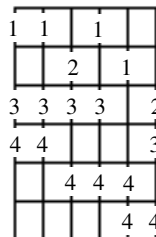
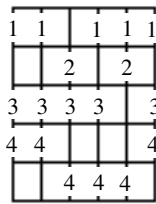
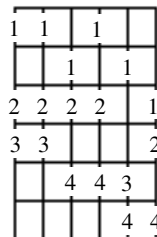
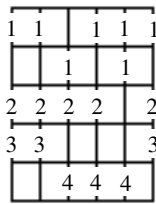
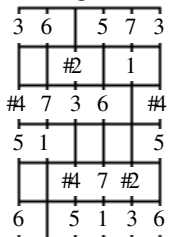
52

b3



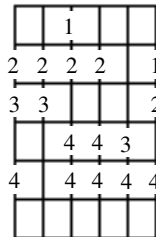
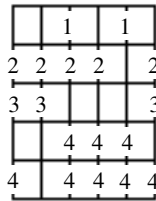
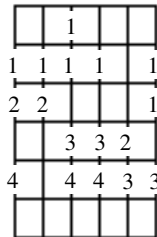
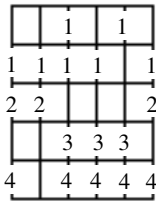
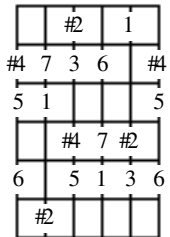
52

3



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4

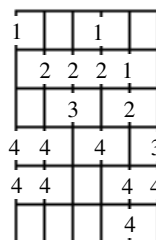
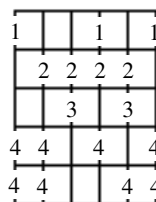
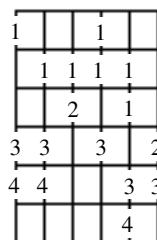
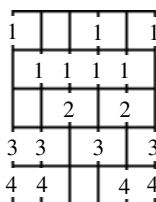
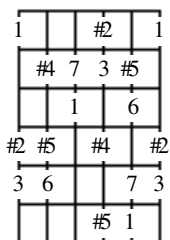
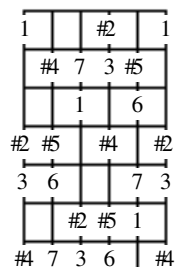


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Lydian #2#5 scale

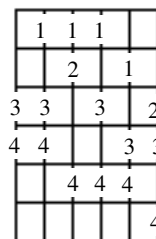
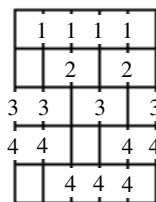
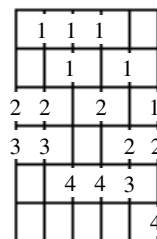
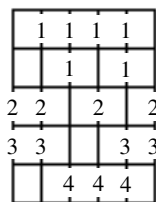
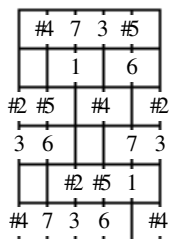
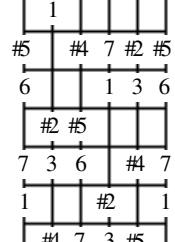
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1



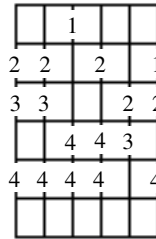
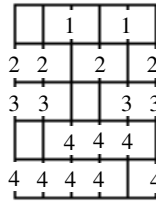
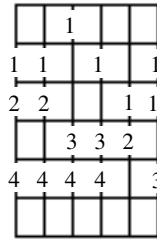
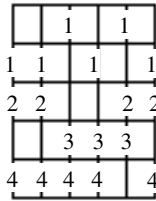
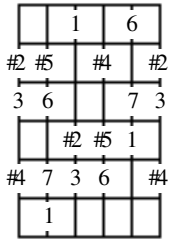
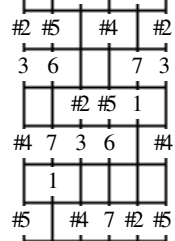
42

b2



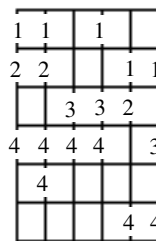
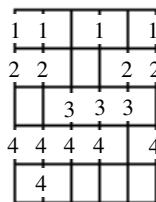
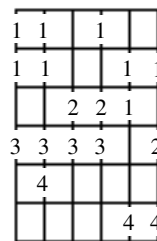
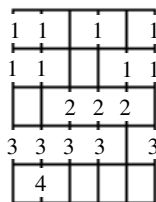
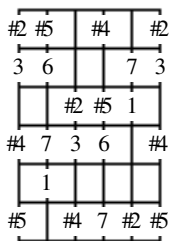
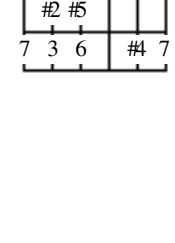
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2



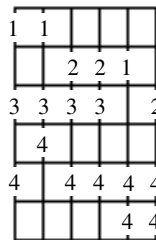
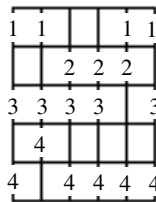
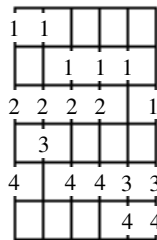
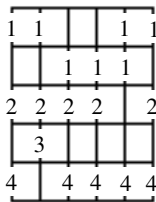
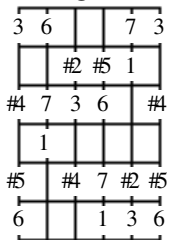
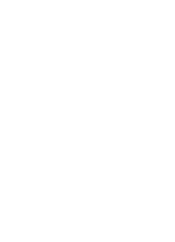
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b3



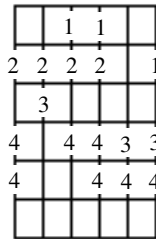
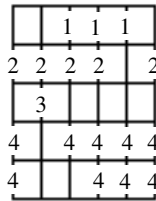
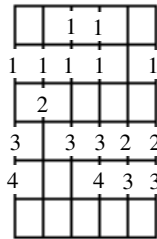
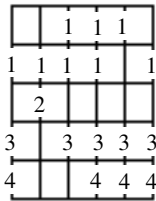
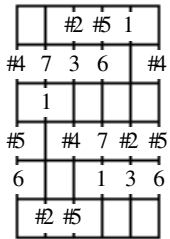
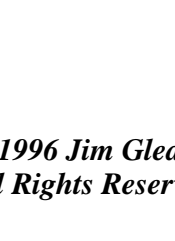
52

3



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4



53

b5

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5

631

b6

631

6

641

b7

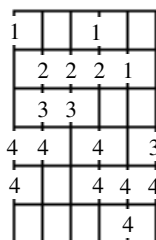
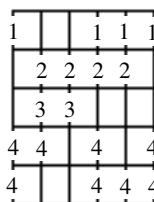
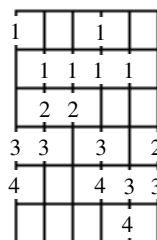
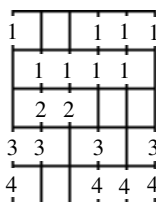
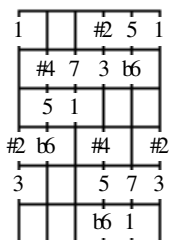
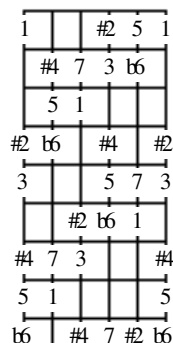
641

7

Lydian #2b6 scale

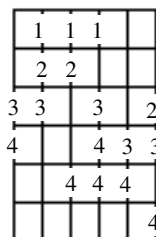
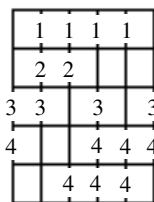
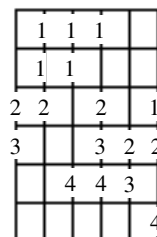
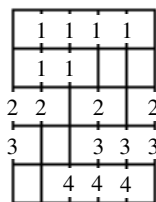
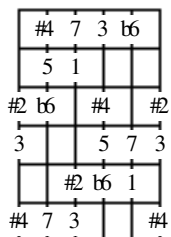
641 / 42

1



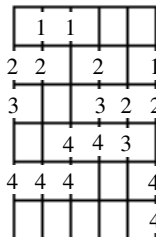
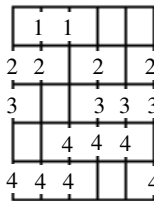
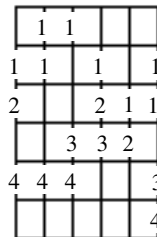
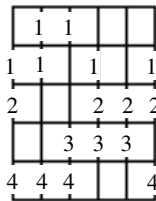
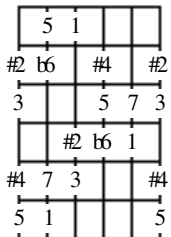
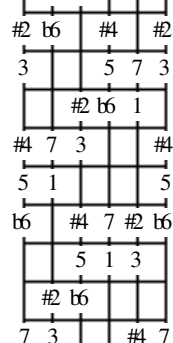
42

b2



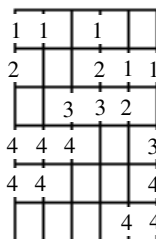
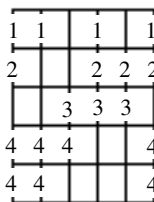
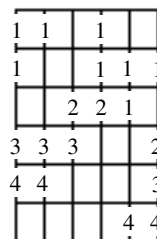
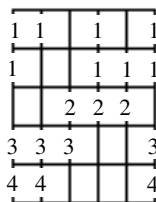
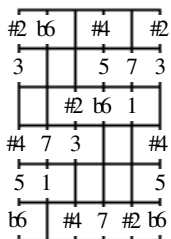
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2



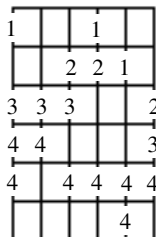
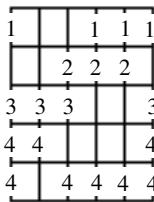
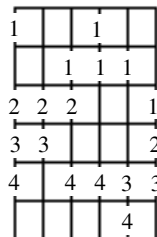
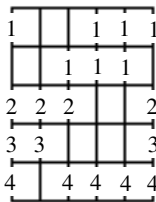
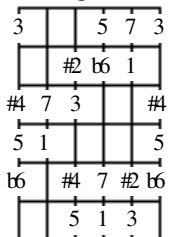
52

b3



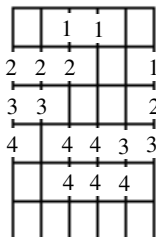
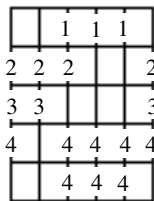
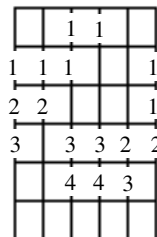
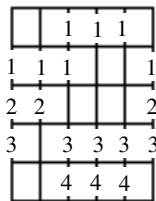
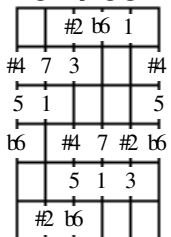
52

3



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4



Lydian #2#6 scale

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1

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5	1			

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3		5	7	3
#6	#2	1		

#4	7	3		#4
5	1	#6	5	
	#4	7	#2	

#6	#2			#6
7	3		#4	7
1	#6	#2	5	1

#4	7	3		
5	1			
#2		#4	#6	#2

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#6	#2	1		
#4	7	3		#4

5	1	#6	5	
	#4	7	#2	
	5	1	3	

#6	#2			#6
7	3		#4	7

1	#6	#2	5	1
#4	7	3		
5	1			

#2		#4	#6	#2
3		5	7	3
#6		1		

#4	7	3		
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#4	7	3		#4

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	#4	7	#2	
	5	1	3	

#6	#2			#6
7	3		#4	7

#2		#4	#6	#2
3		5	7	3
#6	#2	1		

#4	7	3		#4
5	1	#6	5	
	#4	7	#2	

5	1	3		

#4	7	3		#4
5	1	#6	5	
	#4	7	#2	

#6	#2			#6
7	3		#4	7

#2		#4	#6	#2
3		5	7	3
#6	#2	1		

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2	2			

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4		4	4	4

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1	1			
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4	4	4	4	

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4	4	4	4	

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4	4	4	4	

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3	3			

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3		3	2	2
4		4	3	3
4	4	4	4	

b2

2

b3

3

4

53

b5

53 / 631

5

631

b6

631

6

641

b7

641

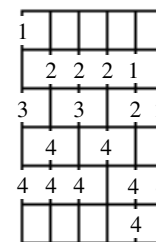
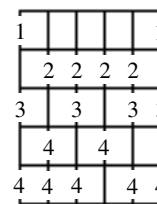
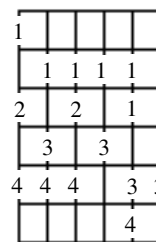
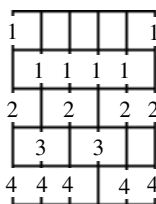
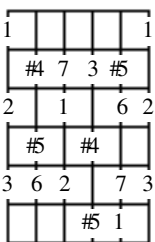
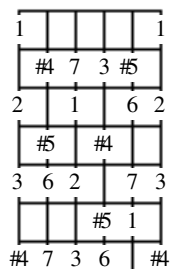
7

The image displays a series of 32 4x4 grids, each containing a unique arrangement of numbers 1-7 and symbols #1, #2, #3, #4, #5, #6, #7. The grids are organized into four groups of eight, labeled b5, 5, b6, and b7. Each group contains a 4x4 grid with a title (e.g., 53, 53/631, 631, 641) and seven smaller 4x4 grids. The grids are arranged in a 4x8 grid pattern.

Lydian #5 scale

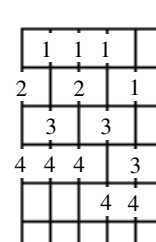
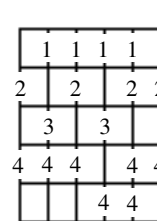
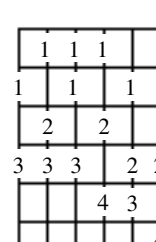
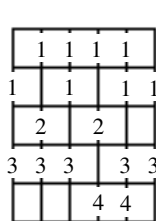
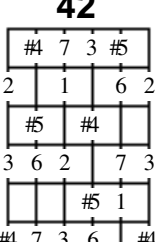
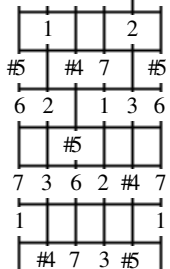
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1



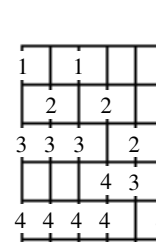
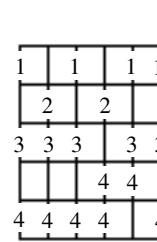
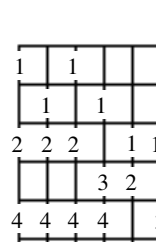
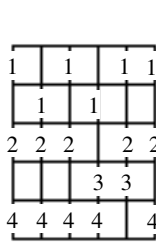
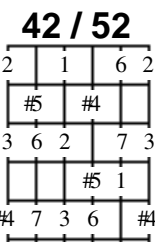
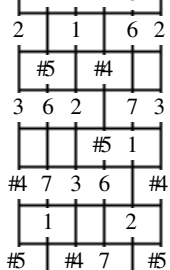
42

b2



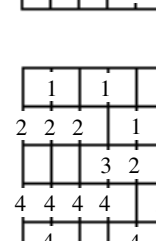
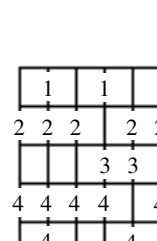
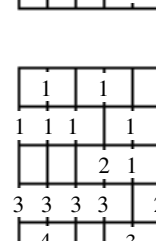
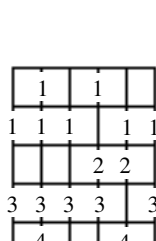
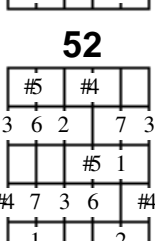
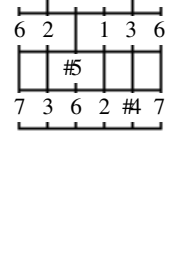
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2



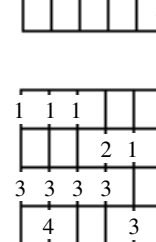
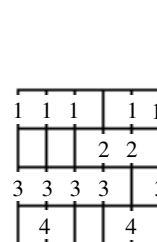
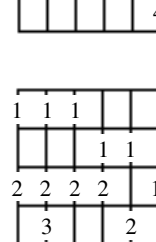
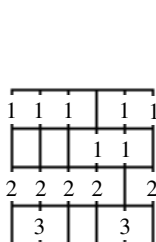
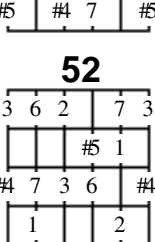
52

b3



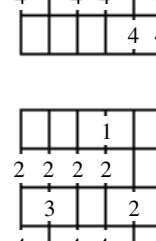
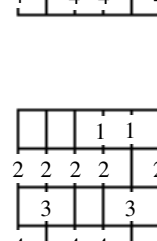
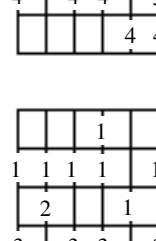
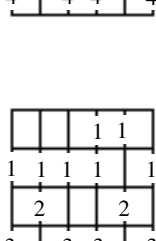
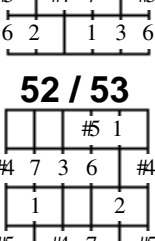
52

3



52 / 53

4



53

b5

53 / 631

5

631

b6

631

6

641

b7

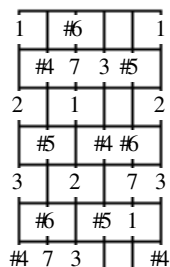
641

7

Lydian #5#6 scale

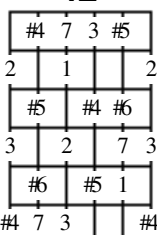
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1



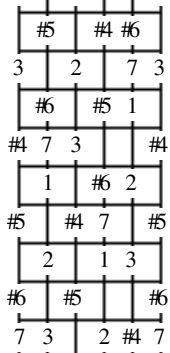
42

b2



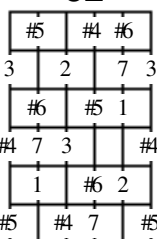
42 / 52

2



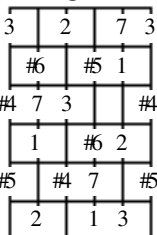
52

b3



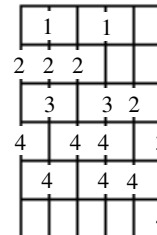
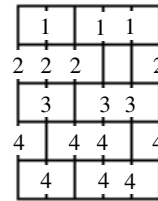
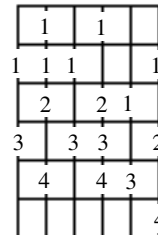
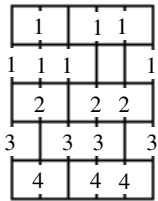
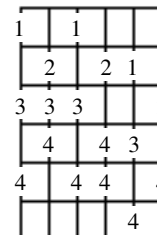
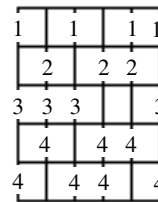
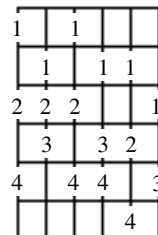
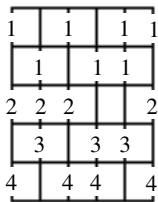
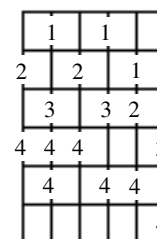
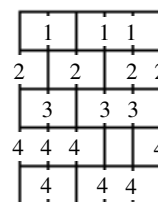
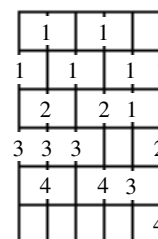
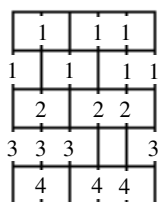
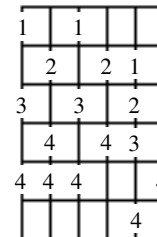
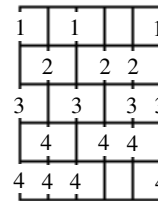
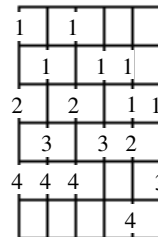
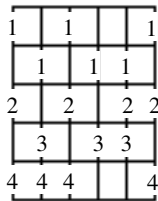
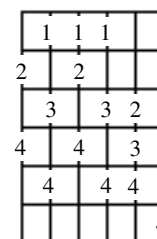
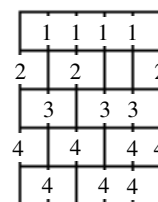
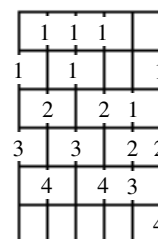
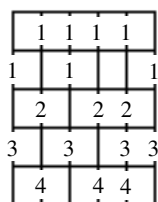
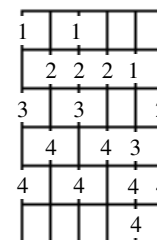
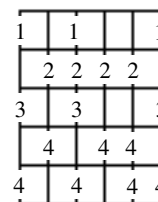
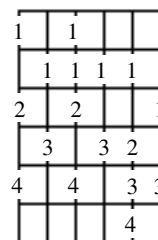
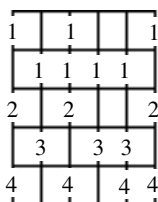
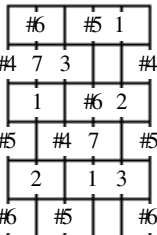
52

3



52 / 53

4



53

b5

53 / 631

5

631

b6

631

6

641

b7

641

7

The image displays a series of 48 4x4 grids, each containing numbers 1-7 and sharp symbols (#). The grids are organized into groups labeled b5, 5, b6, 6, b7, and 7. Each group contains a single grid and a set of four grids. The grids represent different permutations or transformations of the numbers and symbols.

Lydian b6 scale

641 / 42

1

42

b2

42 / 52

2

52

b3

52

3

52 / 53

4

53

b5

53 / 631

5

631

b6

631

6

641

b7

641

7

The image displays a series of 48 4x4 grids, each containing a 3x3 sub-grid. The grids are organized into 8 rows, each corresponding to a specific musical notation (53, b5, 53/631, 5, 631, b6, 6, 641, b7, 641, 7). Each grid contains numbers 1-7 and accidentals (#, b) in various positions, representing a musical score or a logic puzzle.

Lydian #6 scale

641 / 42

1	#6	5	1
#4	7	3	
2	5	1	2
	#4	#6	
3	2	5	7
#6		1	
#4	7	3	#4
5	1	#6	2
	#4	7	
2	5	1	3
#6			#6
7	3	2	#4
1	#6	5	1
#4	7	3	
2	5	1	2
	#4	#6	
3	2	5	7
#6		1	
#4	7	3	#4
5	1	#6	2
	#4	7	
2	5	1	3
#6			#6
7	3	2	#4

1

1	#6	5	1
#4	7	3	
2	5	1	2
		#4	#6
3	2	5	7
#6			1

1		1			
	1	1	1		
2	2	2			1
			3	2	
4		4	4	3	3
				4	

1	1	1	1
2	2	2	
3	3	3	
		4	4
4	4	4	4

1	1		
2	2	2	
3	3	3	2
		4	3
4	4	4	4
			4

42

#4	7	3		
2	5	1		2
			#4	#6
3		2	5	7
				1
#4	7	3		#4

	1	1	1	
1	1	1		1
		2	2	
3		3	3	3
	4			4
	.			

	1	1	1		
1	1	1			1
			2	1	
3		3	3	2	2
	4			3	
					4

	1	1	1		
2	2	2			2
			3	3	
4		4	4	4	4
	4			4	

	1	1	1		
2	2	2			
			3	2	
4		4	4	3	
	4			4	
					4

42 / 52

2	5	1	2	1	2
1	2	3	4	5	6
3	2	5	7	3	2
6	1	2	3	4	5
4	7	3	2	1	4
5	1	6	2	5	1

1	1	1			
			1	1	
2		2	2	1	1
	3			2	
4	4	4			3
				4	4

1	1	1			1
			2	2	
3		3	3	3	3
	4			4	
4	4	4			4

1	1	1		
			2	1
3		3	3	2
	4			3
4	4	4		
			4	4

52

		#4	#6		
3		2	5	7	3
	#6			1	
#4	7	3			#4
5	1		#6	2	5
		#4	7		

		1	1	
1		1	1	1
	2		2	
3	3	3		3
4	4		4	4

		1	
1		1	1
	2		1
3	3	3	
4	4		4
			3

		1	1	
2	2	2	2	2
	3		3	
4	4	4		4
4	4		4	4

		1	
2	2	2	1
	3		2
4	4	4	3
4	4	4	4

52

3	2	5	7	3
#6			1	
#4	7	3		#4
5	1		#6	2
	#4	7		
2	5	1	3	

1		1	1		
	1			1	
2	2	2			1
3	3		3	2	2
		4	4		
				4	

1		1	1	
	2			1
3	3	3		2
4	4		4	3
		4	4	
				4

52 / 53

	#6			1	
#4	7	3			#4
5	1		#6	2	5
		#4	7		
	2	5	1	3	
#6					#6

	1				
1	1	1			1
2	2		2	1	1
		3	3		
	4	4	4	3	
					4

1		1	
2	2	2	2
3	3		3
		4	4
4	4	4	4

	1			
2	2	2		
3	3		3	2
		4	4	
	4	4	4	4

53

b5

53 / 631

5

631

b6

631

6

641

b7

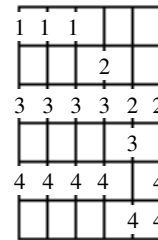
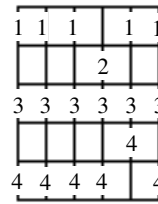
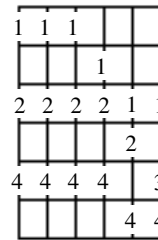
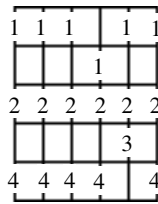
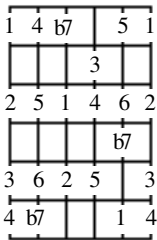
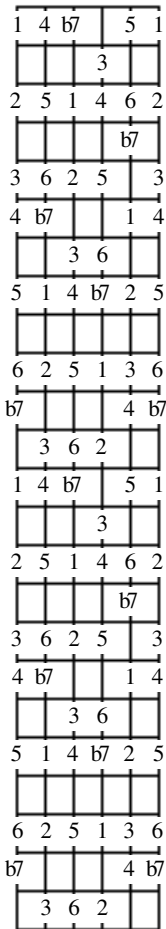
641

7

Mixolydian mode (major b7)

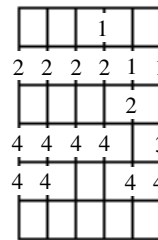
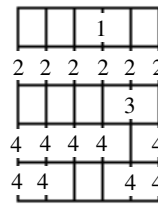
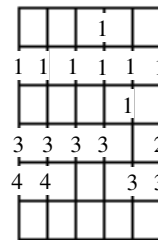
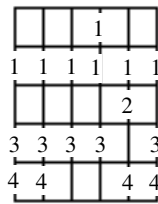
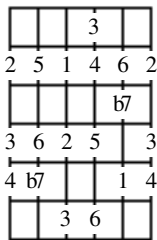
641 / 42

1



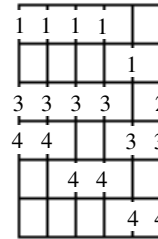
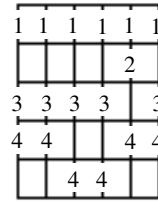
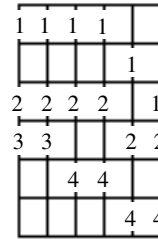
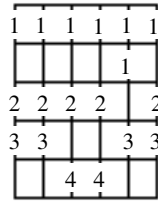
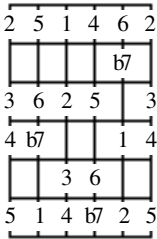
42

b2



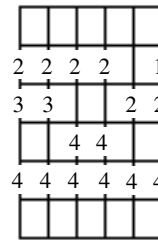
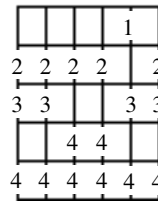
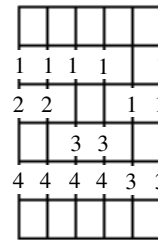
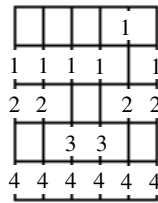
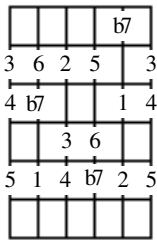
42 / 52

2



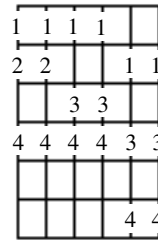
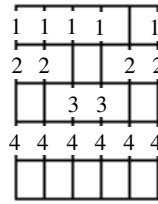
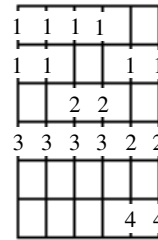
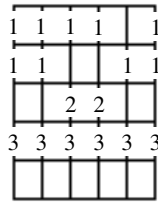
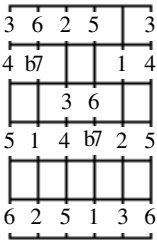
52

b3



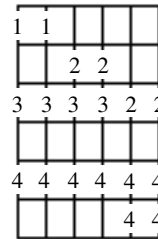
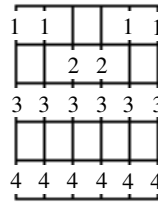
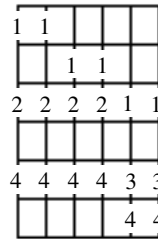
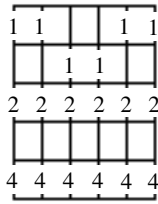
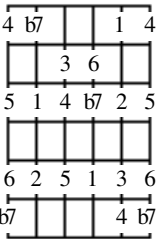
52

3



52 / 53

4

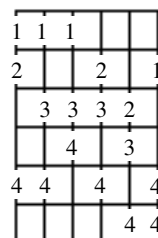
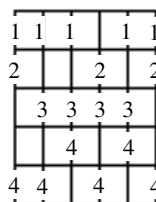
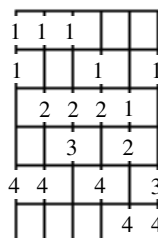
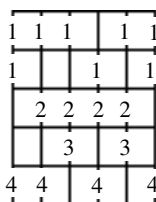
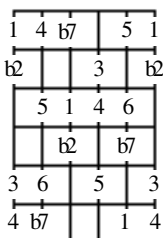
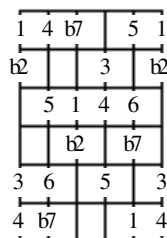


<p>1 4 b7 5 1</p> <p>2 5 1 4 6 2</p> <p>3 6 2 5 3</p> <p>4 b7 1 4</p> <p>5 1 4 b7 2 5</p> <p>6 2 5 1 3 6</p> <p>b7 4 b7</p> <p>3 6 2</p> <p>1 4 b7 5 1</p> <p>2 5 1 4 6 2</p> <p>3 6 2 5 3</p> <p>4 b7 1 4</p> <p>5 1 4 b7 2 5</p> <p>6 2 5 1 3 6</p> <p>b7 4 b7</p> <p>3 6 2</p>	<p>53</p> <p>5 1 4 b7 2 5</p> <p>6 2 5 1 3 6</p> <p>b7 4 b7</p> <p>3 6 2</p>	<p>1 1 1 1 1</p> <p>3 3 3 3 3</p> <p>4 4 4 4</p>	<p>1 1 1 1 1</p> <p>3 3 3 3 2 2</p> <p>4 3 3</p>	<p>2 2 2 2 2 2</p> <p>4 4 4 4 4 4</p> <p>4 4 4 4</p>	<p>2 2 2 2 1 1</p> <p>4 4 4 4 3 3</p> <p>4 4 4 4</p>
<p>5</p>	<p>53 / 631</p> <p>5 1 4 b7 2 5</p> <p>6 2 5 1 3 6</p> <p>b7 4 b7</p> <p>3 6 2</p> <p>1 4 b7 5 1</p>	<p>1 1 1 1 1 1</p> <p>2 2 2 2 2 2</p> <p>3 3 3 3</p> <p>4 4 4</p>	<p>1 1 1 1 1</p> <p>2 2 2 2 1 1</p> <p>3 2 2</p> <p>4 4 4</p>	<p>1 1 1 1 1 1</p> <p>3 3 3 3 3 3</p> <p>4 4 4</p>	<p>1 1 1 1 1</p> <p>3 3 3 3 2 2</p> <p>4 3 3</p> <p>4 4 4</p>
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<p>6</p>	<p>631</p> <p>6 2 5 1 3 6</p> <p>b7 4 b7</p> <p>3 6 2</p> <p>1 4 b7 5 1</p> <p>3</p> <p>2 5 1 4 6 2</p>	<p>1 1 1 1 1 1</p> <p>1 1 1</p> <p>2 2 2</p> <p>3 3 3 3 3 3</p> <p>4</p>	<p>1 1 1 1 1</p> <p>1 1 1</p> <p>2 2 2</p> <p>3 3 3 2 2</p> <p>4 4</p>	<p>1 1 1 1 1 1</p> <p>2 2 2</p> <p>3 3 3</p> <p>4 4 4 4 4 4</p>	<p>1 1 1 1 1</p> <p>2 1 1</p> <p>3 3 3</p> <p>4 4 4 3 3</p> <p>4</p> <p>4 4 4</p>
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Mixolydian b2 scale

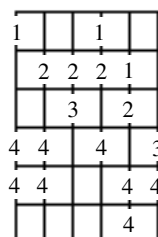
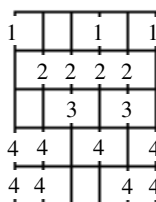
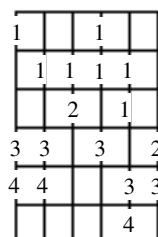
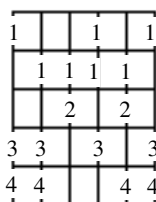
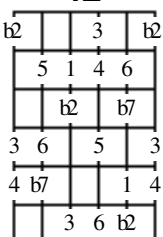
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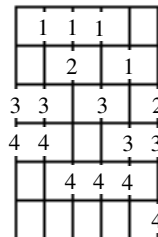
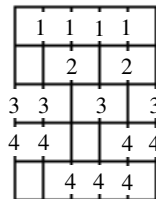
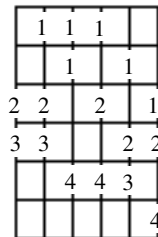
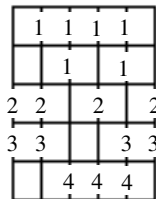
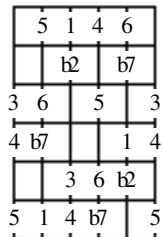
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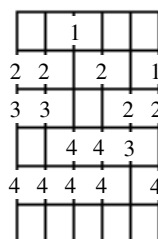
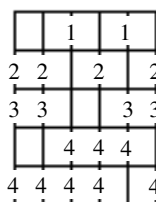
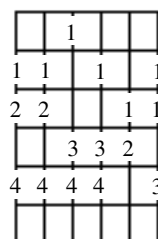
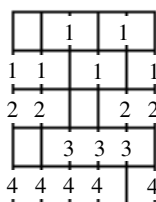
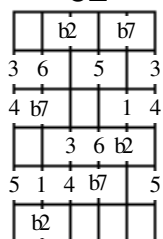
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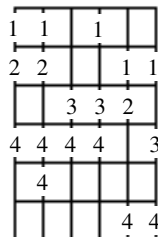
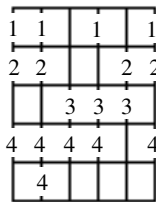
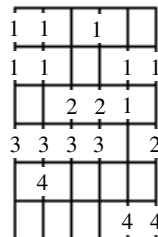
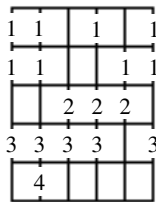
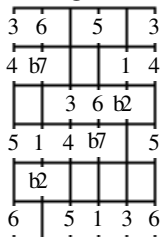
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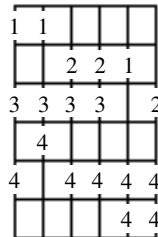
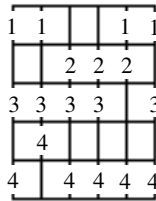
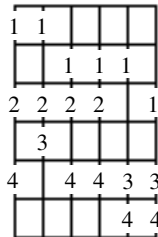
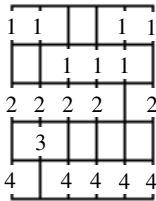
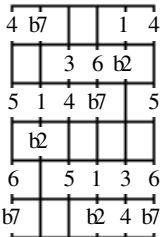
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	b5					
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Mixolydian b2#4 scale

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b2

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b3

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3

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4

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b5

53 / 631

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631

b6

631

6

641

b7

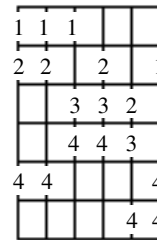
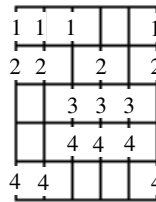
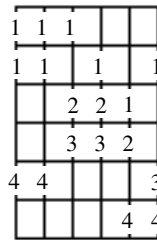
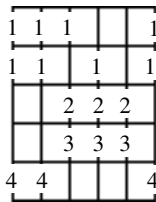
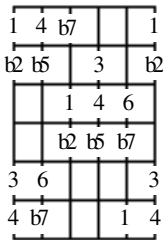
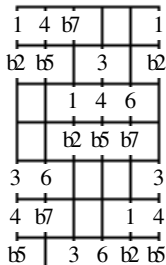
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Mixolydian b2b5 scale

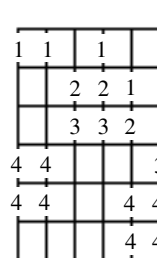
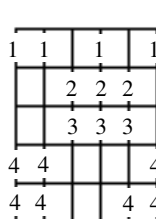
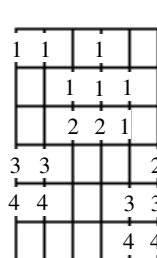
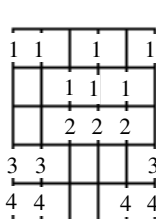
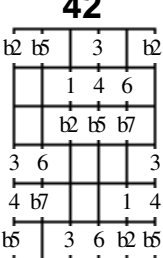
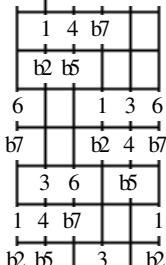
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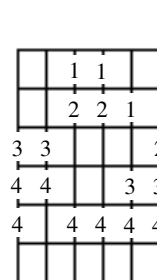
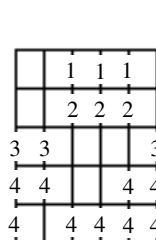
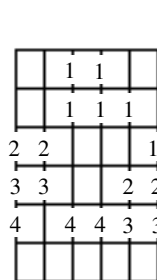
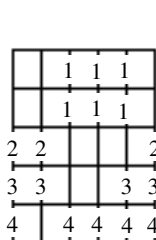
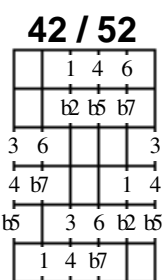
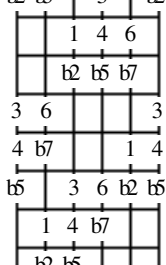
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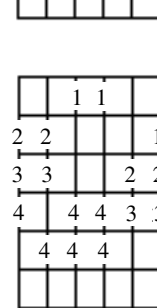
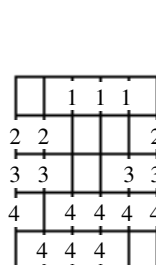
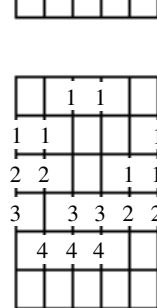
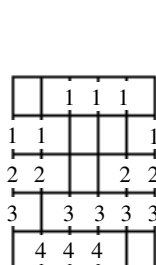
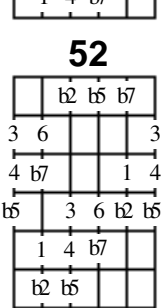
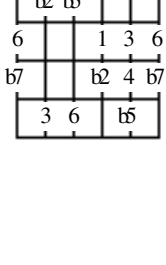
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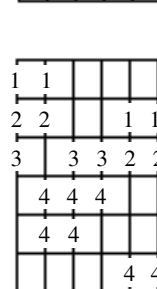
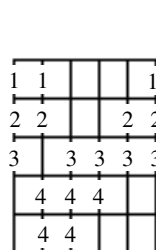
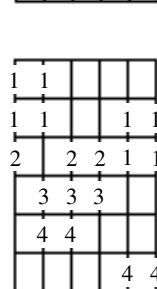
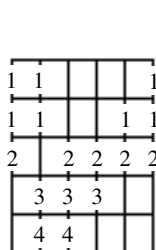
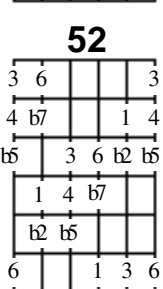
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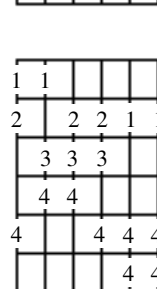
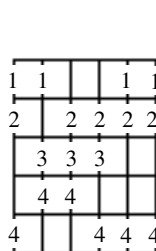
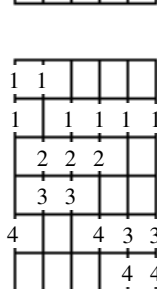
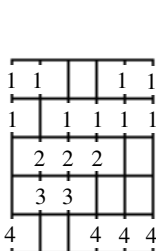
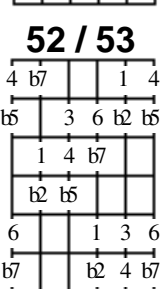
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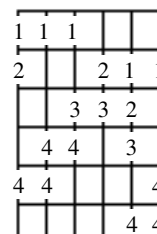
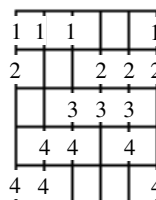
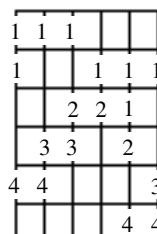
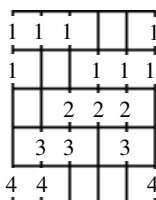
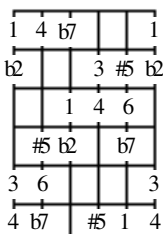
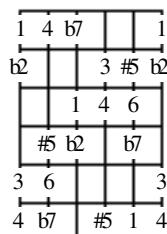


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Mixolydian b2#5 scale

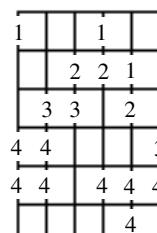
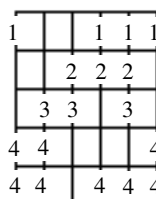
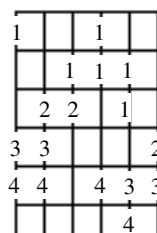
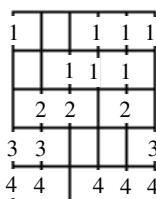
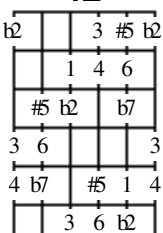
641 / 42

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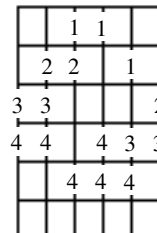
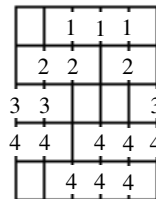
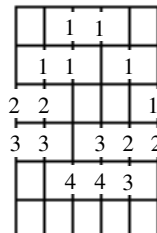
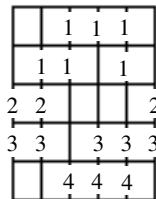
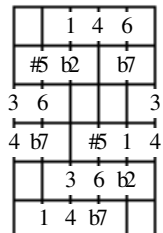
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b2



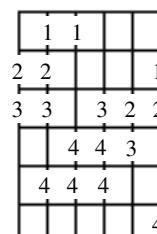
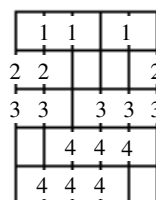
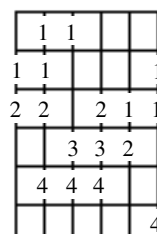
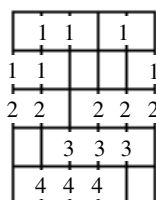
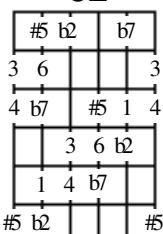
42 / 52

2



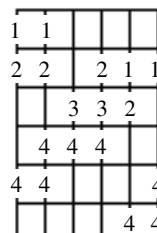
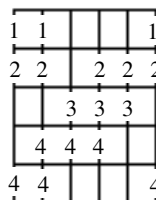
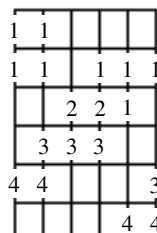
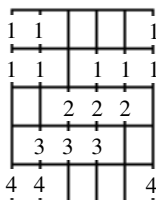
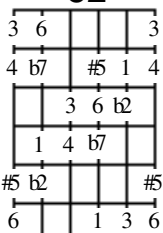
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b3



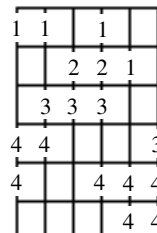
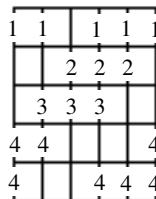
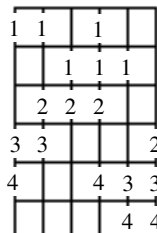
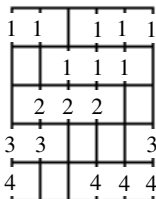
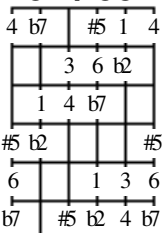
52

3



52 / 53

4



53

b5

53 / 631

5

631

b6

631

6

641

b7

641

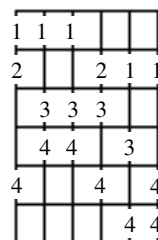
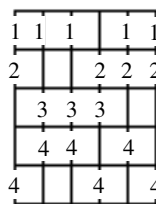
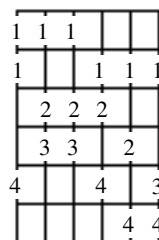
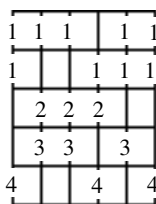
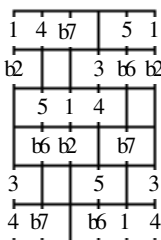
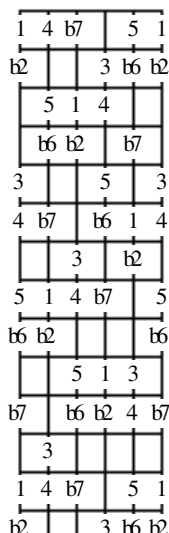
7

The image displays a series of 48 4x4 grids, each containing a 3x3 sub-grid of numbers and symbols. The grids are organized into 8 rows and 6 columns. Each row is labeled with a number (53, 53/631, 5, 631, 6, 641, b7, 641) and each column with a symbol (b5, b6, b7). The grids contain various combinations of numbers (1, 2, 3, 4, 6) and symbols (#, b).

Mixolydian b2b6 scale (Phrygian major third)

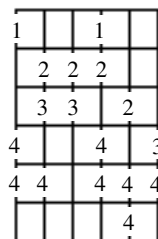
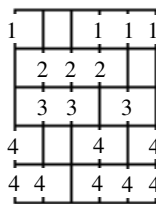
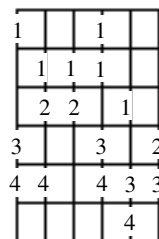
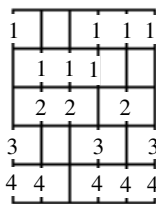
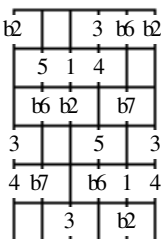
641 / 42

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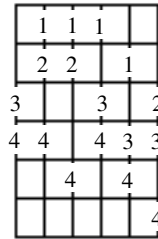
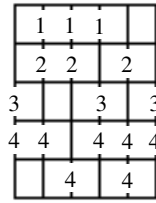
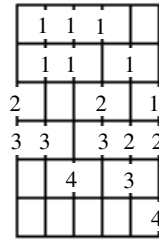
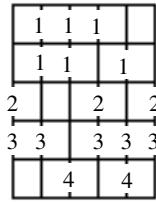
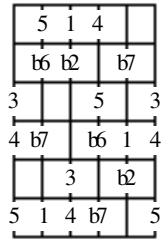
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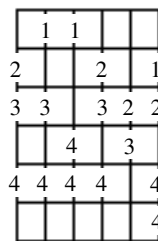
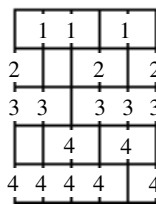
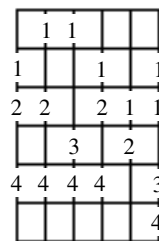
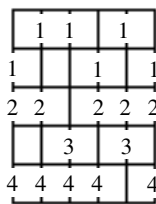
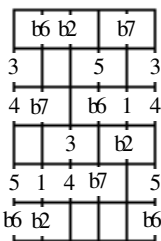
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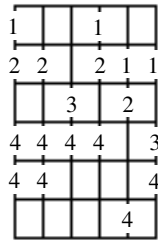
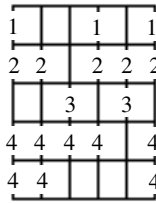
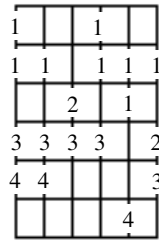
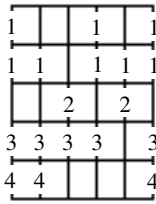
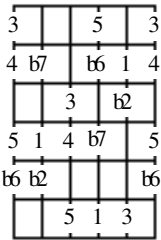
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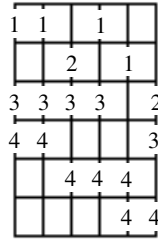
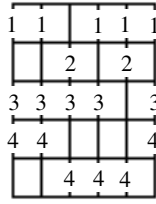
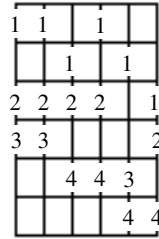
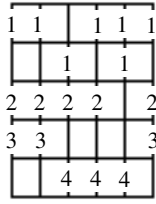
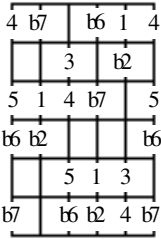
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b5

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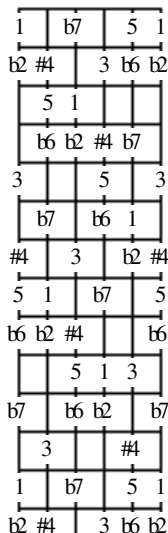
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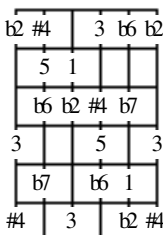
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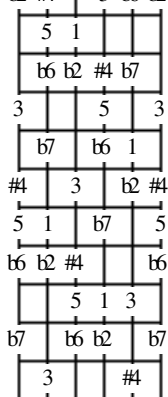
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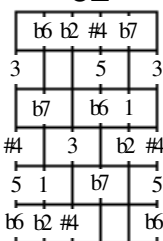
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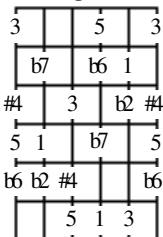
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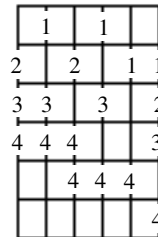
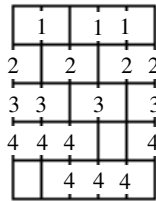
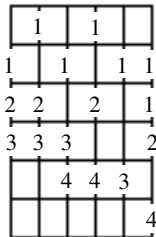
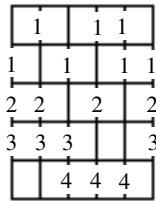
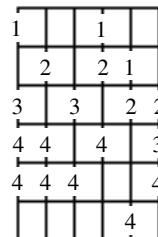
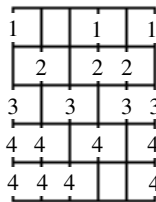
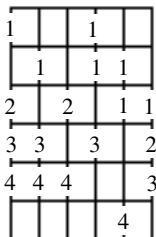
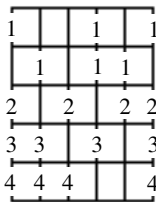
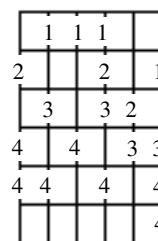
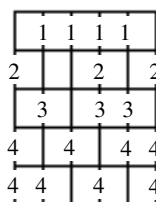
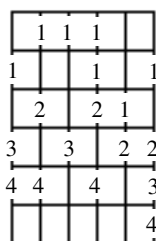
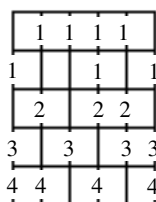
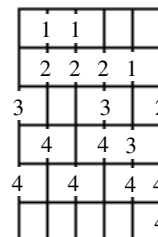
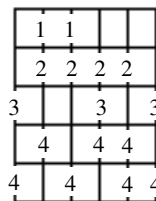
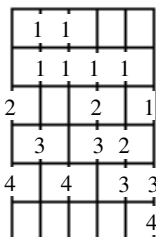
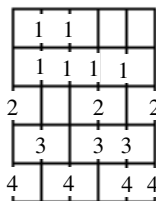
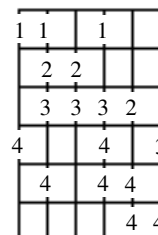
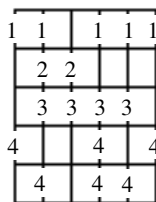
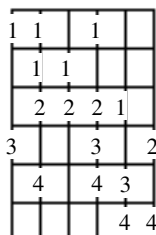
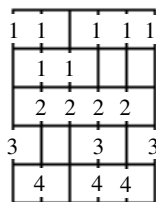
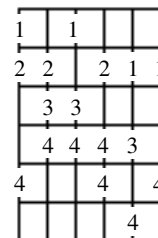
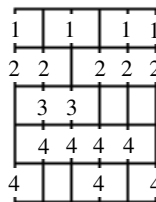
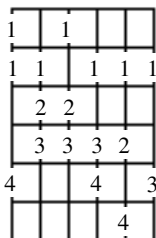
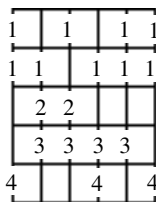
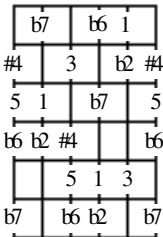
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Mixolydian b2b3b4 scale (7/6b9#9)

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1

1	b7	b3	5	1
b2		b4		b2
5	1	6		
b3	b2	b7	b3	
b4	6	5	b4	
b7	b3	1		
	b4	6	b2	
5	1	b7	5	
b2		b3		
6	5	1	b4	6
b7	b3	b2	b7	
b4	6			
1	b7	b3	5	1
b2		b4		b2
5	1	6		
b3	b2	b7	b3	
b4	6	5	b4	
b7	b3	1		
	b4	6	b2	
5	1	b7	5	
b2		b3		
6	5	1	b4	6
b7	b3	b2	b7	
b4	6			

1	b7	b3	5	1
b2		b4		b2
5	1	6		
b3	b2	b7	b3	
b4	6	5		
b7	b3	1		

1	1	1	1	1
1		1		1
2	2	2		
3	3	3	3	3
4	4	4	4	4

1	1	1		
1		1		1
2	2	2	1	
3	3	2	2	
4	4	4	3	
		4		

1	1	1	1	1
2		2		2
3	3	3	3	
4	4	4	4	4
4	4	4	4	4

1	1	1		
2		2		1
3	3	3	2	
4	4	3	3	
4	4	4	4	4
		4		

42

b2

b2		b4		b2
5	1	6		
b3	b2	b7	b3	
b4	6	5	b4	
b7	b3	1		
	b4	6	b2	

1		1		1
1	1	1		
2	2	2	2	2
3	3	3	3	3
4	4	4		

1		1		
1	1	1		
2	2	1	1	
3	3	3	2	
4	4	3		
		4		

1		1		1
2	2	2		
3	3	3	3	3
4	4	4	4	4
4	4	4		

1		1		
2	2	1		
3	3	2	2	
4	4	4	3	
4	4	4		
		4		

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2

5	1	6		
b3	b2	b7	b3	
b4	6	5	b4	
b7	b3	1		
	b4	6	b2	
5	1	b7	5	

1	1	1		
1	1	1	1	1
2	2	2	2	2
3	3	3		
4	4	4		

1	1			
1	1	1	1	1
2	2	2	1	
3	3	2		
4	4	3		
		4		

1	1	1		
2	2	2	2	2
3	3	3	3	
4	4	4	4	
	4	4	4	

1	1			
2	2	1	1	
3	3	3	2	
4	4	3		
	4	4	4	
		4		

52

b3

b3	b2	b7	b3	
b4	6	5	b4	
b7	b3	1		
	b4	6	b2	
5	1	b7	5	
	b2		b3	

1	1	1	1	1
1	1	1	1	1
2	2	2		
	3	3	3	
4	4	4	4	4

1	1			
1	1	1	1	1
2	2	1		
3	3	2		
4	4	3		
		4		

1	1	1	1	1
2	2	2	2	
3	3	3	3	
4	4	4	4	
4	4	4	4	4

1	1			
2	2	2	1	
3	3	3	2	
4	4	3		
4	4	4	4	4
		4		

52

3

b4	6	5	b4	
b7	b3	1		
	b4	6	b2	
5	1	b7	5	
	b2		b3	
6	5	1	b4	6

1	1	1	1	1
1	1	1		
	2	2	2	
3	3	3	3	3
4		4		

1	1	1		
1	1	1	1	1
	2	2	1	
3	3	3	2	
4	4	3		
		4		

1	1	1	1	1
2	2	2	2	
3	3	3	3	
4	4	4	4	4
4	4	4		

1	1	1		
2	2	1		
3	3	2		
4	4	3		
4	4	4	3	
		4	4	

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4

b7	b3	1		
	b4	6	b2	
5	1	b7	5	
	b2		b3	
6	5	1	b4	6
b7	b3	b2	b7	

1	1	1		
	1	1	1	
2	2	2	2	2
	3		3	
4	4	4	4	4

1	1			
	1	1	1	
2	2	2	1	
3	3	2		
4	4	3	3	
		4		

1	1	1		
	2	2	2	
3	3	3	3	3
4		4		
4	4	4	4	4

1	1			
	2	2	1	
3	3	3	2	
4		3		
4	4	4	4	4
		4		

		1	1	
2	2		2	
	3			2
4		4	4	3
4	4		4	

1	1		1	
	2			1
3		3	3	2
4	4		4	
	4	4		
				4

1				
2	2	2	1	
3	3		3	
4	4			
4			4	4

The first grid shows a 3x4 array with all cells containing the number 4. Arrows indicate a comparison between the first and second columns.

The second grid shows the array after the first swap. The first row contains 1, 1, 1, and the second row contains 2, 2, 2. Arrows indicate a comparison between the second and third columns.

4		4	4	3	2
4			4		4
				4	

1	1		1		
	2	2			

3	3	3	2
4		4	
4	4		4
			4

1	1		
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2		2	2	1
3			3	
	4	4		3
4		4		4

Mixolydian b2b3b4b6 scale (7/b6b9#9)

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1

1	b7	b3	5	1
b2		b4	b6	b2
5	1			
b3	b6	b2	b7	b3
b4		5	b4	

1	b7	b3	5	1
b2		b4	b6	b2
5	1			
b3	b6	b2	b7	b3
b4		5		
b7	b3	b6	1	

1	1	1	1	1
1		1	1	1
2	2			
3	3	3	3	3
4		4	4	4

1	1	1		
1		1	1	1
2	2			
3	3	3	2	2
4		4	3	
			4	

1	1	1	1	1
2		2	2	2
3	3			
4	4	4	4	4
4		4	4	4

1	1	1		
2		2	1	1
3	3			
4	4	4	3	3
4		4	4	4
			4	

42

b2

b2		b4	b6	b2
5	1			
b3	b6	b2	b7	b3
b7	b3	b6	b2	b7
b4				

b2		b4	b6	b2
5	1			
b3	b6	b2	b7	b3
b4		5	b4	
b7	b3	b6	1	
b4		b2		

1		1	1	1
1	1			
2	2	2	2	2
3		3	3	3
4	4	4	4	4

1		1		
1	1			
2	2	2	1	1
3		3	2	
4	4	4	3	
			4	

1		1	1	1
2	2			
3	3	3	3	3
4		4	4	4
4	4	4	4	4

1		1		
2	2			
3	3	3	2	2
4		4	3	
4	4	4	4	4
			4	

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2

b3	b6	b2	b7	b3
b4		5	b4	
b7	b3	b6	1	
	b4	b2		
5	1	b7	5	
b6	b2		b3	b6
	5	1	b4	
b7	b3	b6	b2	b7
b4				

5	1			
b3	b6	b2	b7	b3
b4		5	b4	
b7	b3	b6	1	
b4		b2		
5	1	b7	5	

1	1			
1	1	1	1	1
2		2	2	2
3	3	3	3	3
4		4	4	

1	1			
1	1	1	1	1
2		2	1	
3	3	3	2	
4		4	3	
			4	

1	1			
2	2	2	2	2
3		3	3	
4	4	4	4	4
	4	4		

1	1			
2	2	2	1	1
3		3	2	
4	4	4	3	
	4	4		
			4	

52

b3

b3	b6	b2	b7	b3
b4		5	b4	
b7	b3	b6	1	
	b4	b2		
5	1	b7	5	
b6	b2		b3	b6
	5	1	b4	
b7	b3	b6	b2	b7
b4				

b3	b6	b2	b7	b3
b4		5	b4	
b7	b3	b6	1	
b4		b2		
5	1	b7	5	
b6	b2		b3	b6

1	1	1	1	1
1		1	1	1
2	2	2	2	2
	3	3		
4	4	4	4	4

1	1	1		
1		1	1	1
2	2	2	1	
	3	2		
4	4	4	3	
			4	4

1	1	1	1	1
2		2	2	
3	3	3	3	3
	4	4		
4	4	4	4	4

1	1	1		
2		2	1	
3	3	3	2	
	4	3		
4	4	4	4	4
			4	4

52

3

b4		5	b4	
b7	b3	b6	1	
	b4	b2		
5	1	b7	5	
b6	b2		b3	b6
	5	1	b4	

b4		5	b4	
b7	b3	b6	1	
	b4	b2		
5	1	b7	5	
b6	b2		b3	b6
	5	1	b4	

1		1	1	1
1	1	1	1	1
	2	2		
3	3	3	3	3
4	4		4	4

1		1		
1	1	1	1	1
	2	1		
3	3	3	2	
4	4		3	3
			4	

1		1	1	1
2	2	2	2	2
	3	3		
4	4	4	4	4
4	4		4	4

1		1		
2	2	2	1	
	3	2		
4	4	4	3	
4	4		4	4
			4	

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4

b7	b3	b6	1	
	b4	b2		
5	1	b7	5	
b6	b2		b3	b6
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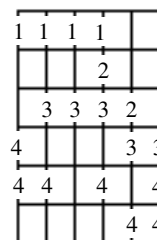
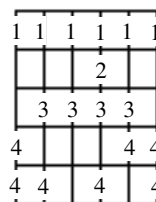
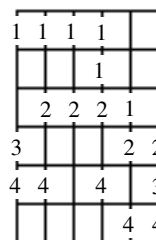
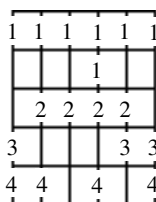
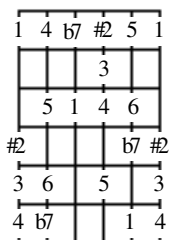
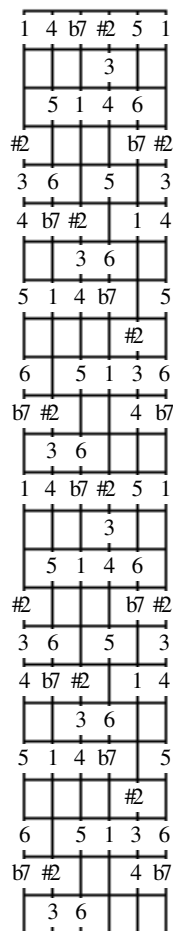
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Mixolydian #2 scale

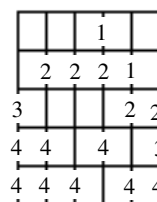
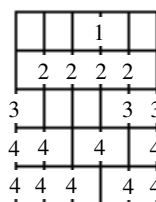
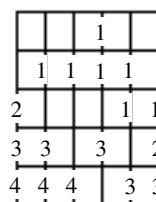
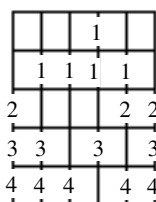
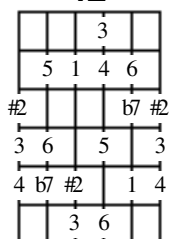
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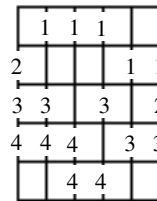
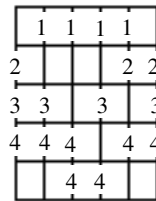
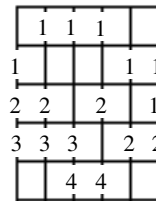
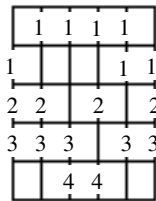
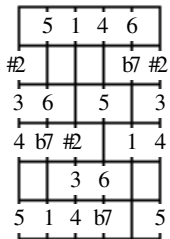
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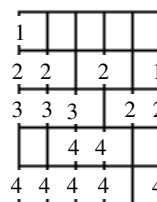
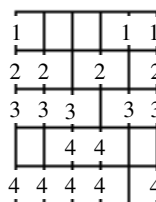
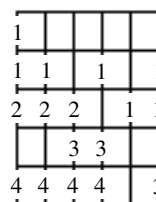
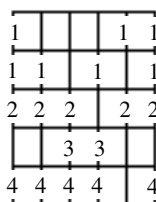
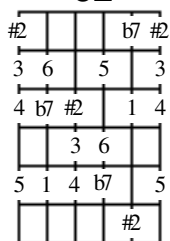
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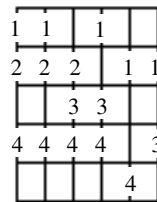
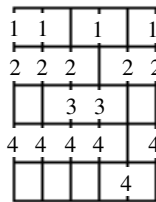
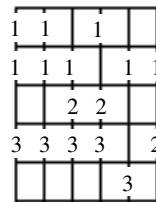
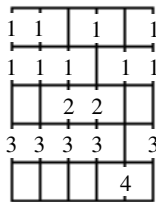
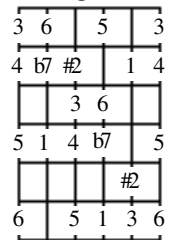
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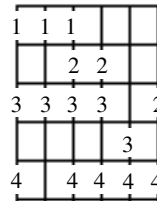
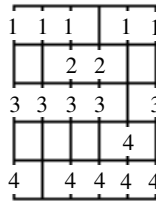
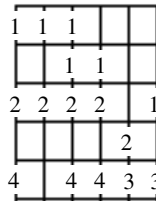
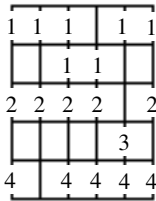
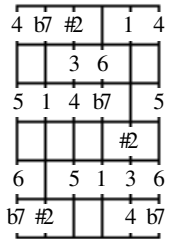
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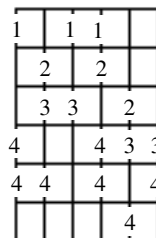
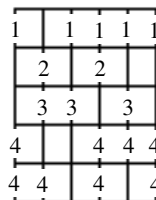
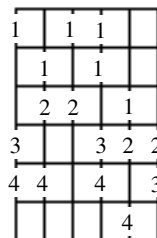
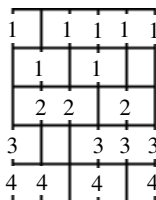
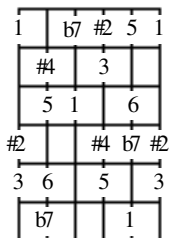
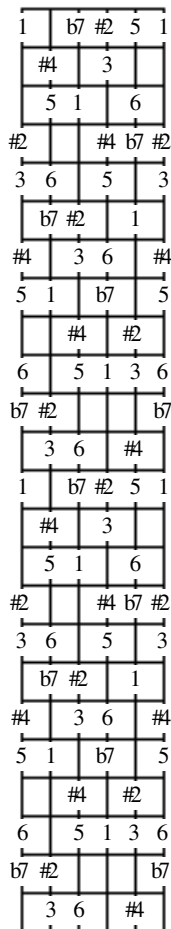


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Mixolydian #2#4 scale

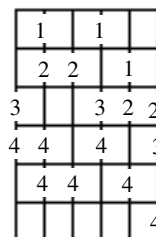
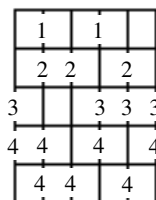
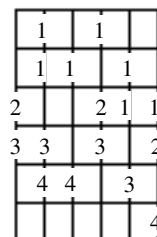
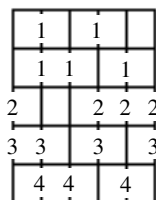
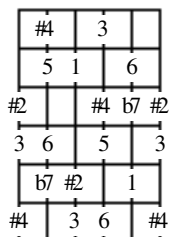
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1



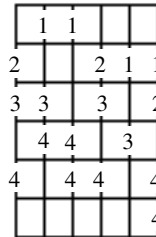
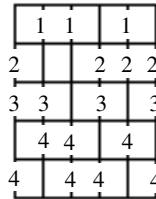
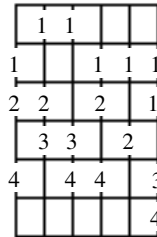
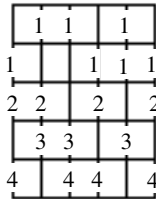
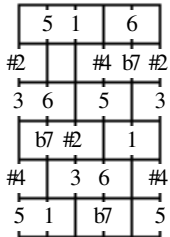
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b2



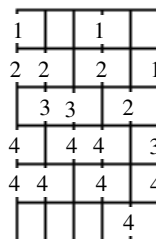
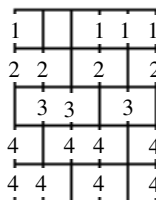
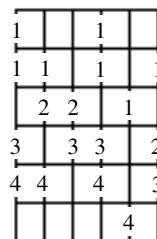
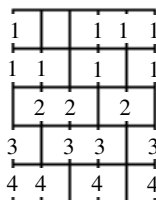
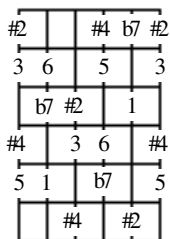
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2



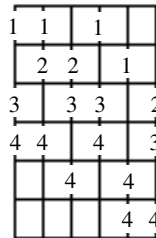
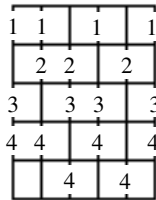
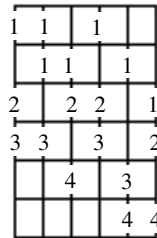
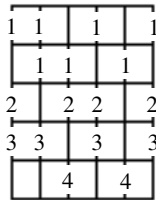
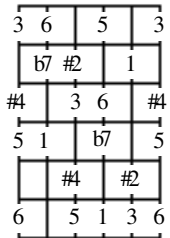
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b3



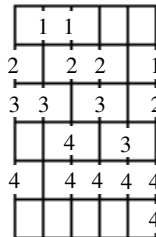
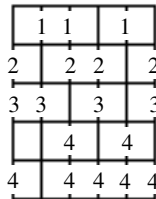
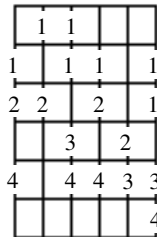
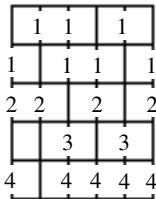
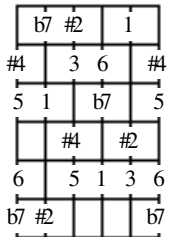
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4

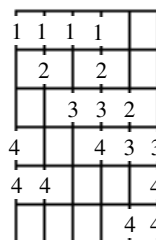
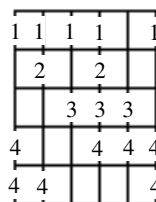
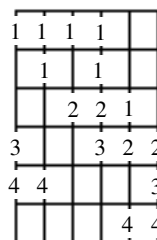
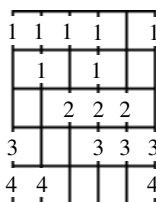
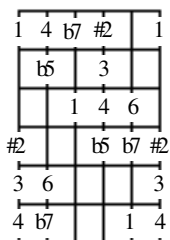
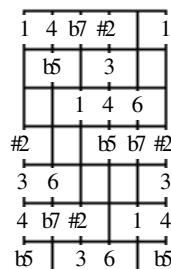


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#4	3	6	#4																											
5	1	b7	5	5	53 / 631	5	1	b7	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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Mixolydian #2b5 scale

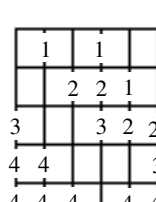
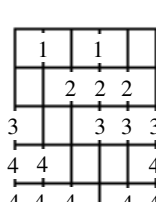
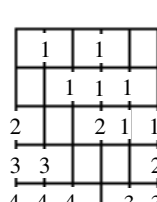
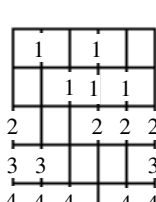
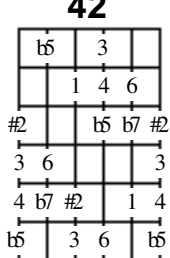
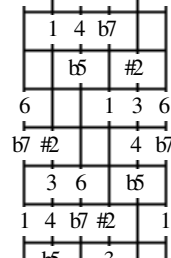
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1



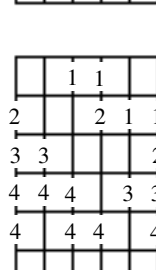
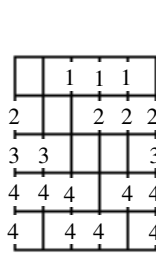
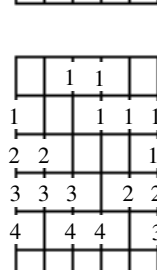
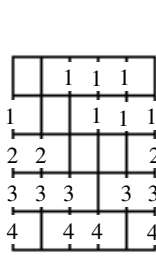
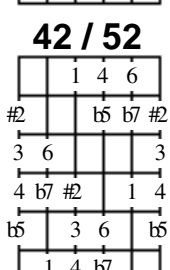
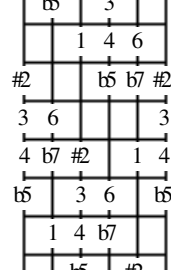
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b2



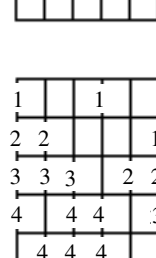
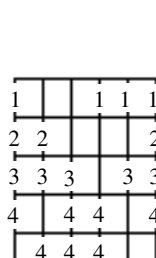
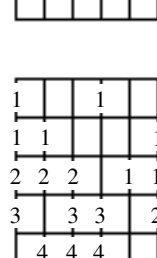
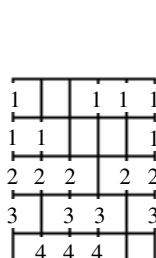
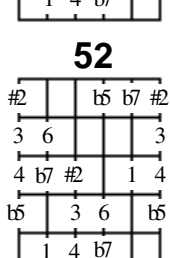
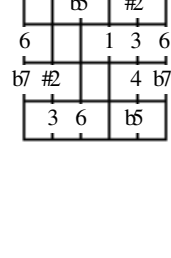
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2



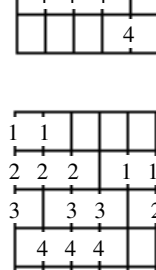
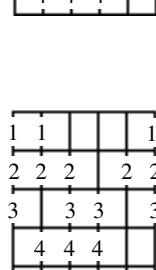
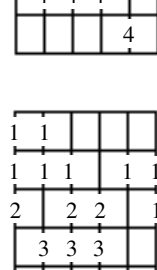
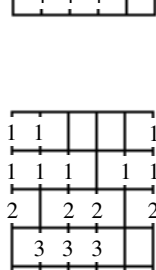
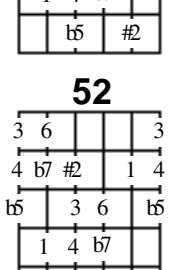
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b3



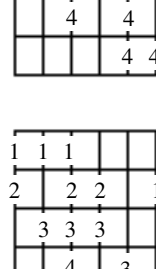
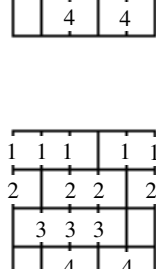
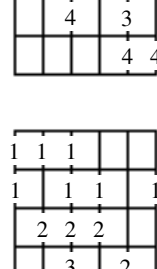
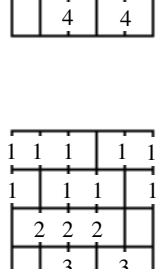
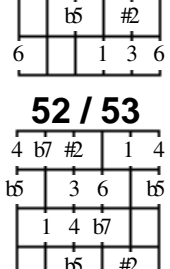
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3



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4



53

b5

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5

631

b6

631

6

641

b7

641

7

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3 6 b5

53 / 631
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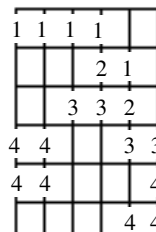
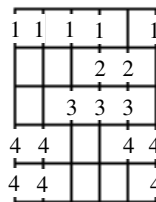
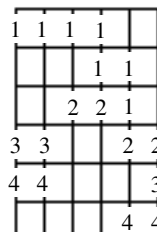
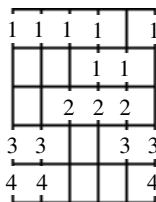
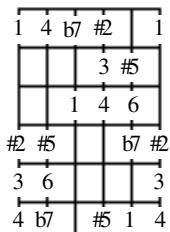
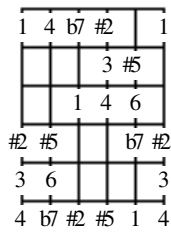
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Mixolydian #2#5 scale

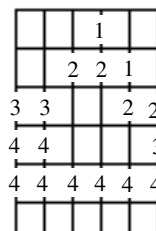
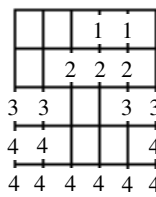
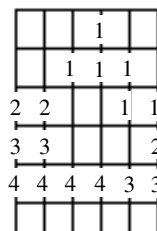
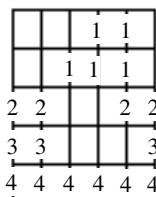
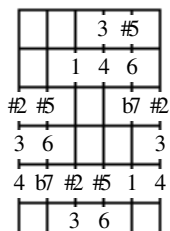
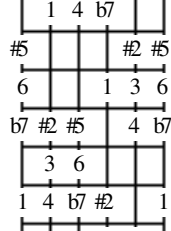
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1



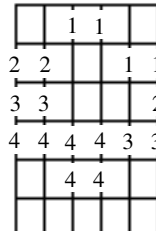
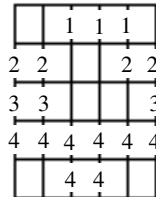
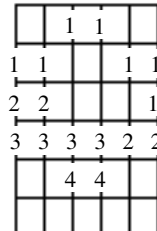
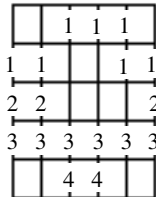
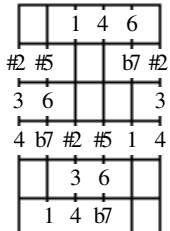
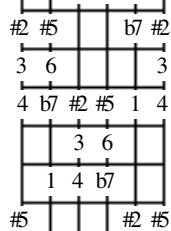
42

b2



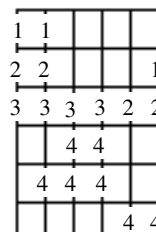
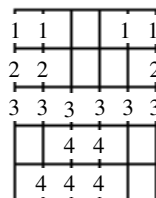
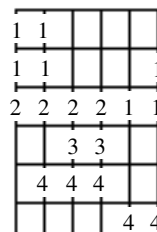
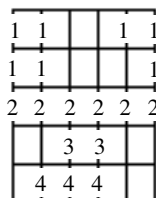
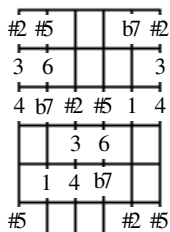
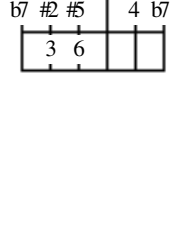
42 / 52

2



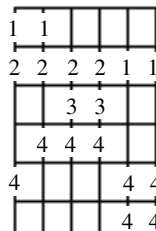
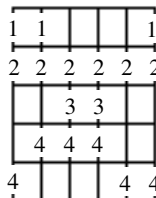
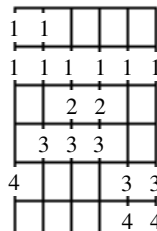
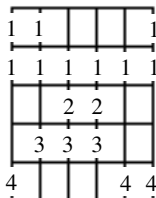
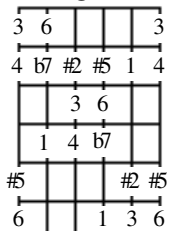
52

b3



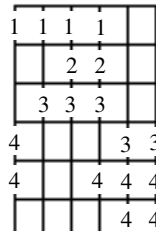
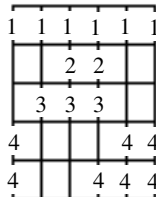
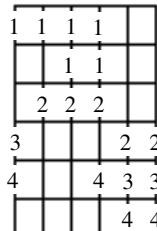
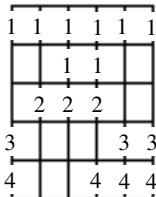
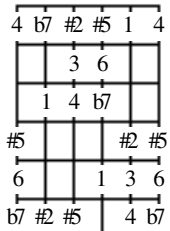
52

3



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4



53

b5

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5

631

b6

631

6

641

b7

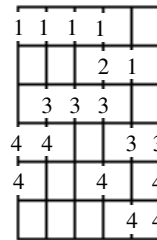
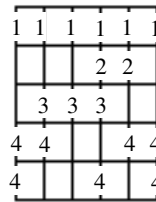
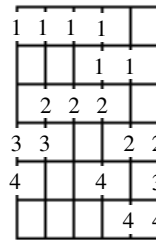
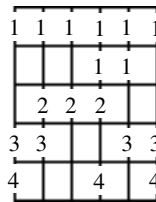
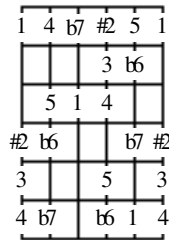
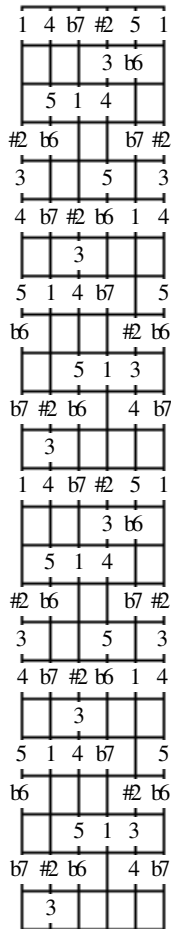
641

7

Mixolydian #2b6 scale

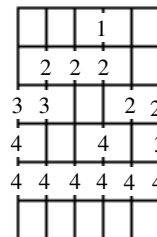
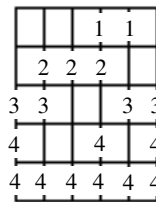
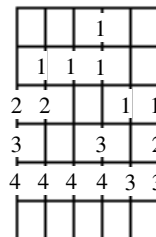
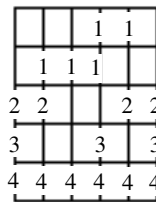
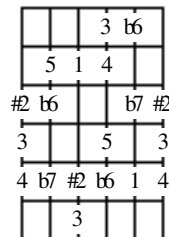
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1



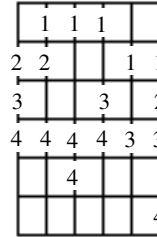
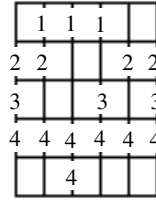
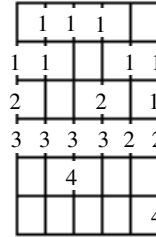
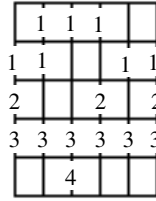
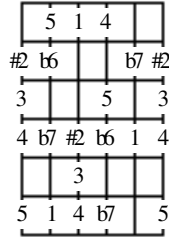
42

b2



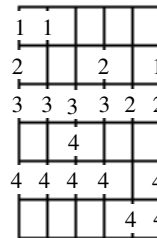
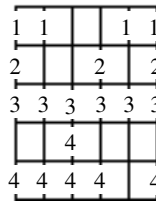
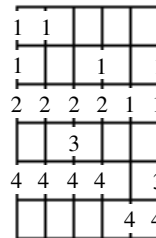
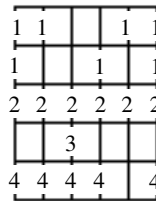
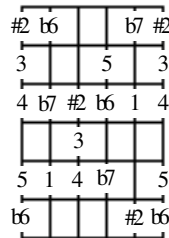
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2



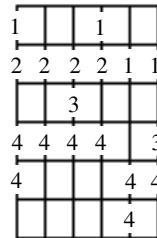
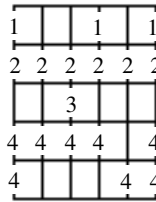
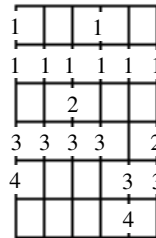
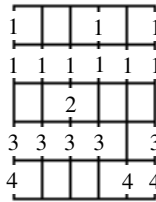
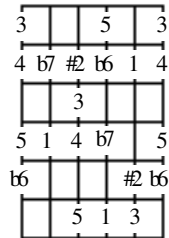
52

b3



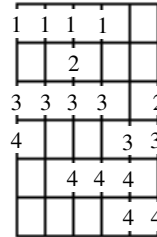
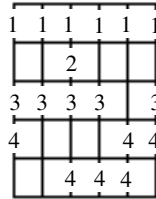
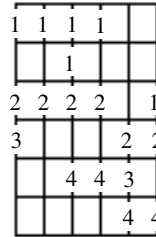
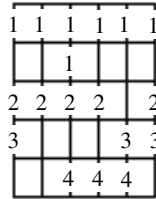
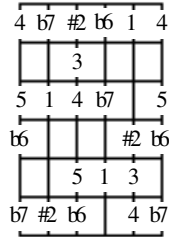
52

3



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4

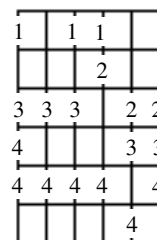
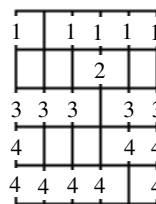
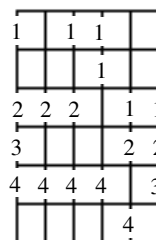
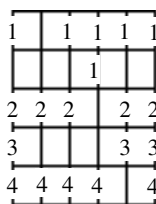
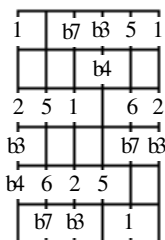
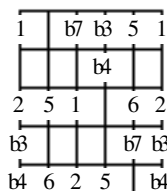


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Mixolydian b3b4 scale (= 1, 2, #2, 3, 5, 6, b7)

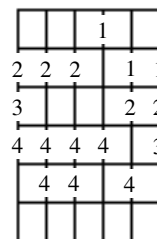
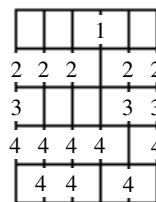
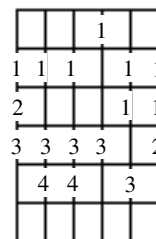
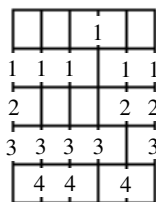
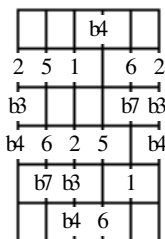
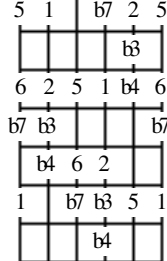
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1



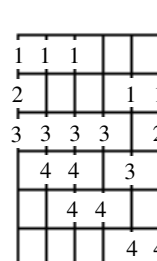
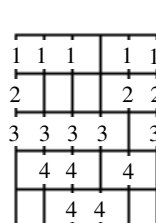
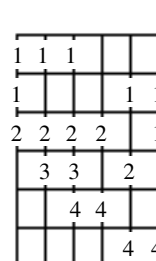
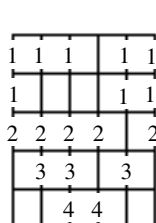
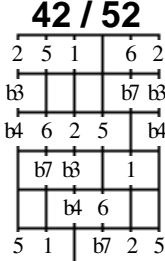
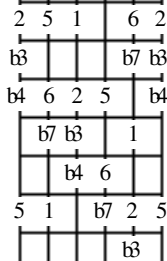
42

b2



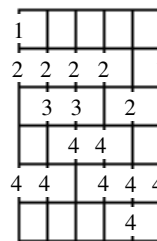
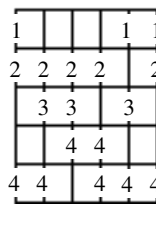
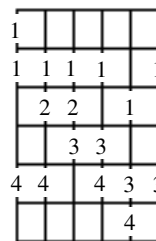
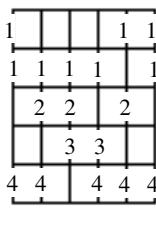
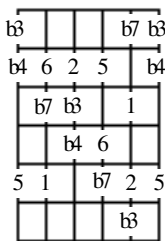
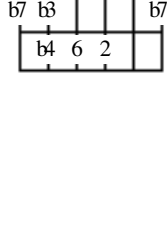
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2



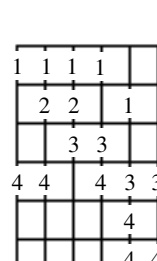
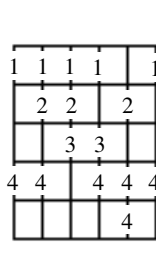
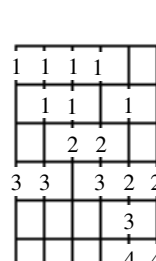
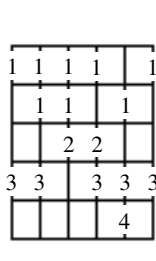
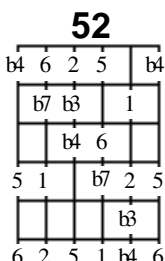
52

b3



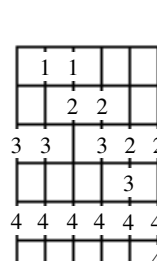
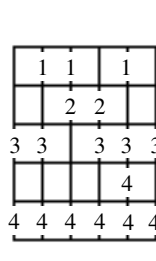
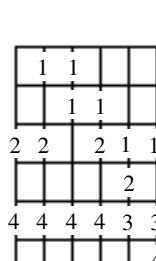
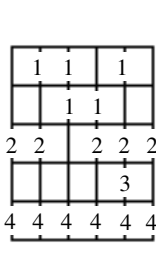
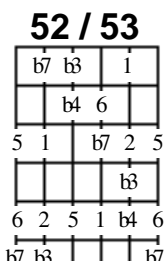
52

3



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4

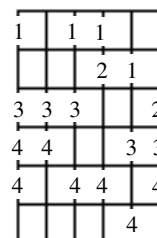
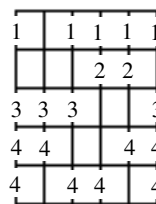
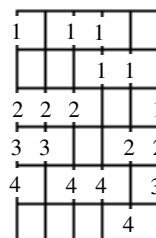
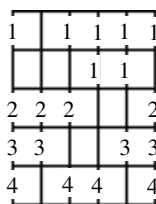
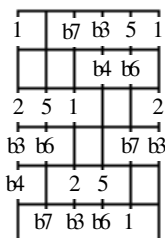
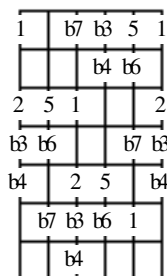


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	<p>53 / 631</p>	<p>5 1 b7 2 5</p> <p> b3 </p> <p>6 2 5 1 b4 6</p> <p>b7 b3 b7</p> <p> b4 6 2 </p> <p>1 b7 b3 5 1</p>	<p>1 1 1 1 1</p> <p>2 2 2 2 2 2</p> <p>3 3 3</p> <p>4 4 4 </p>	<p>1 1 1 1</p> <p>2 2 2 2 1 1</p> <p>3 3 2</p> <p>4 4 4 </p>	<p>1 1 1 1 1</p> <p>3 3 3 3 3 3</p> <p>4 4 4</p> <p>4 4 4 </p>	<p>1 1 1 1</p> <p>3 3 3 3 2 2</p> <p>4 4 3</p> <p>4 4 4 </p>
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Mixolydian b3b4b6 scale (= 1, 2, #2, 3, 5, b6, b7)

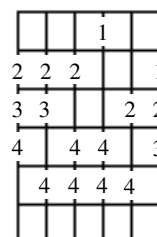
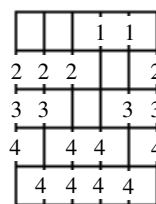
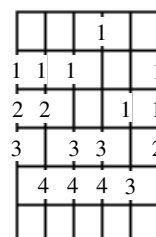
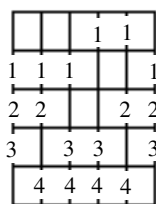
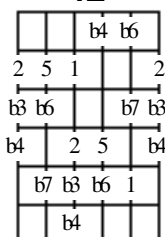
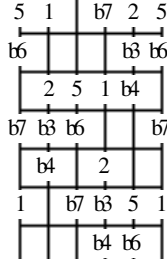
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1



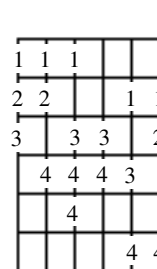
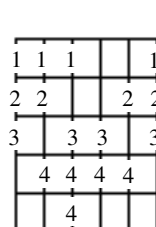
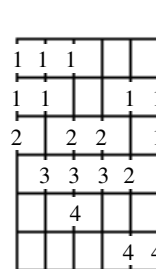
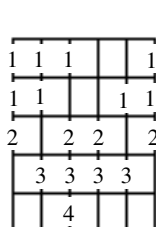
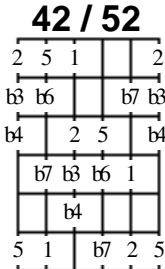
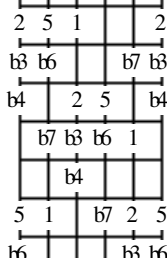
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b2



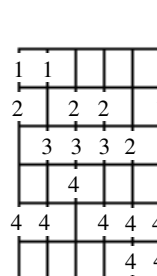
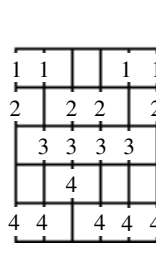
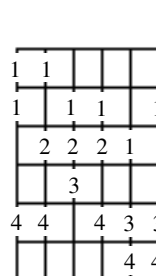
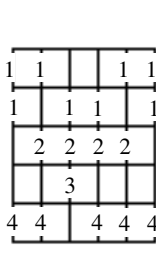
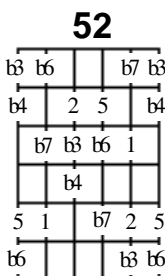
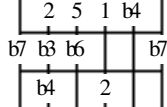
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2



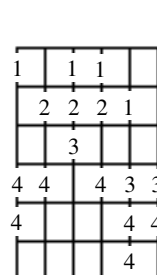
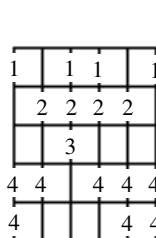
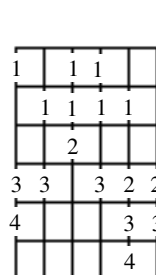
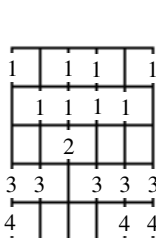
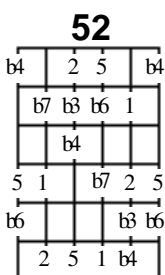
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b3



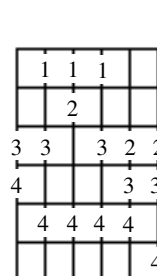
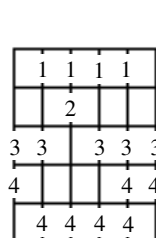
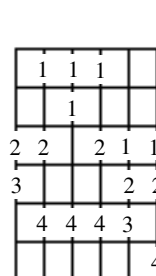
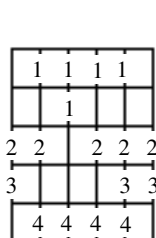
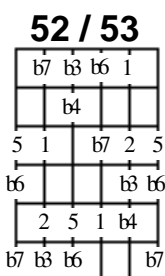
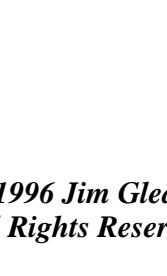
52

3



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4



Mixolydian #4 scale (Lydian b7, melodic minor mode IV)

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1

42

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2

52

b3

52

3

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4

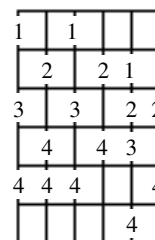
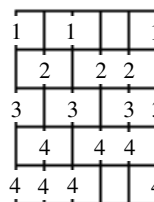
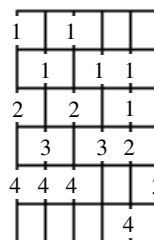
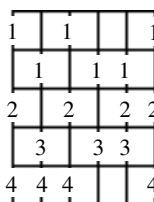
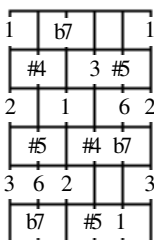
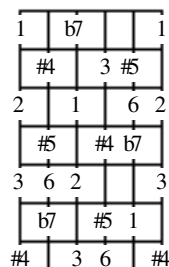
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Mixolydian #4#5 scale

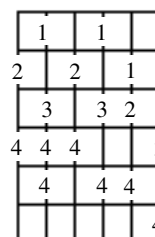
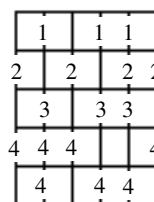
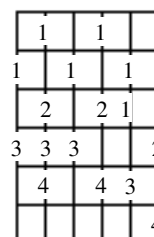
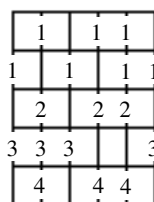
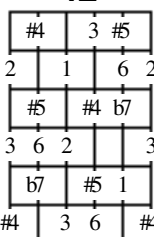
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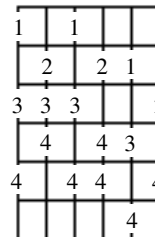
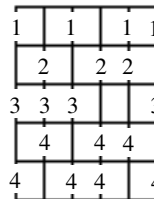
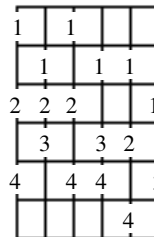
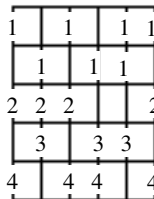
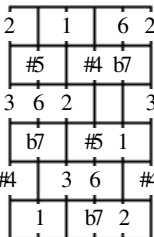
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b2



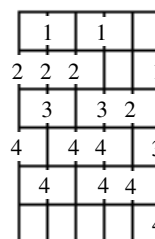
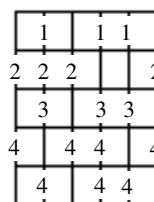
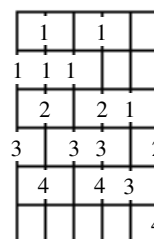
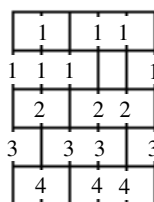
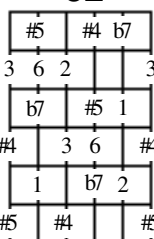
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2



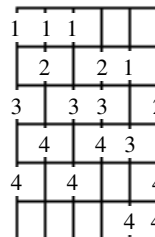
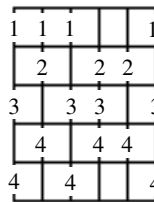
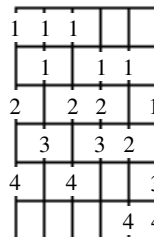
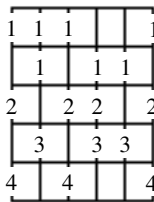
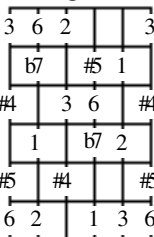
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b3



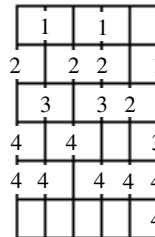
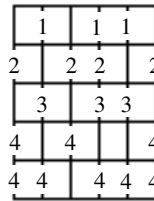
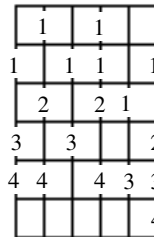
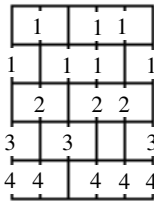
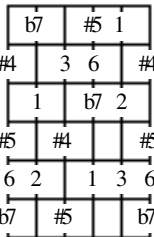
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3



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4



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4		4	
			4

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2		2	1
3	3		3 2 2
4		4	
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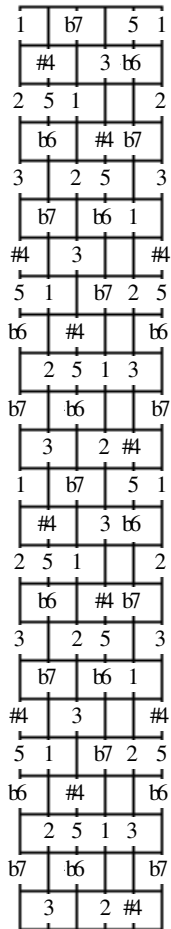
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3		3	
	4		3
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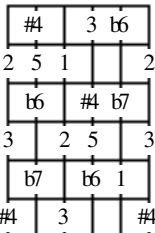
Mixolydian #4b6 scale

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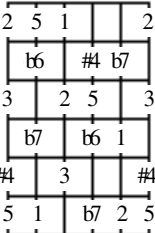
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42



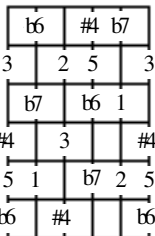
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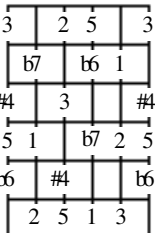
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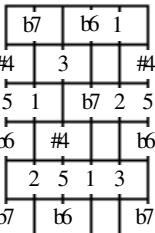
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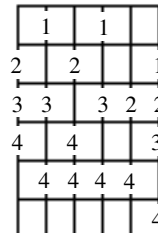
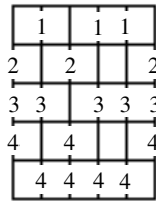
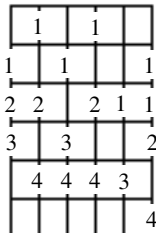
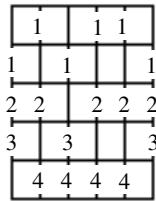
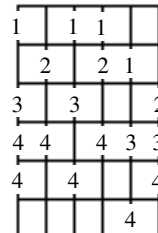
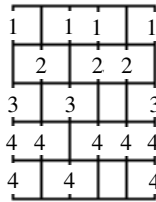
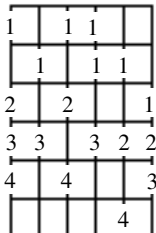
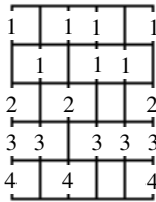
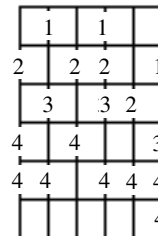
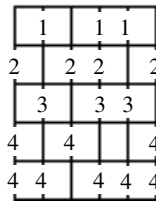
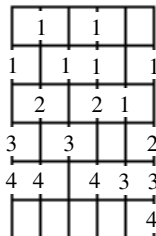
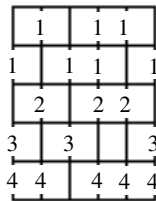
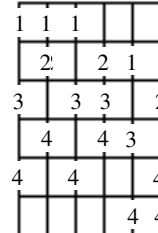
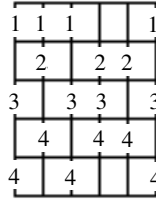
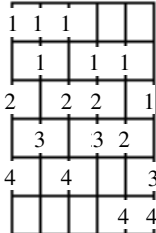
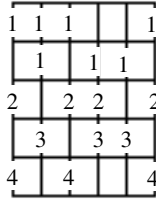
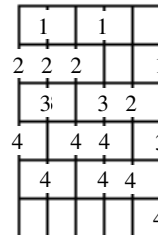
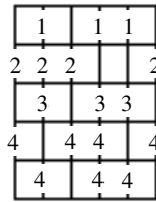
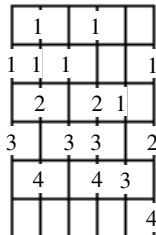
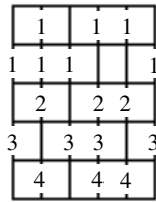
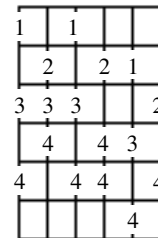
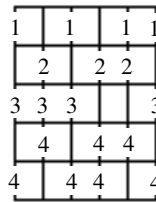
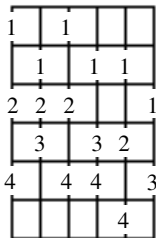
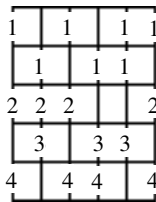


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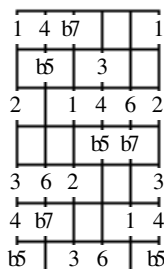


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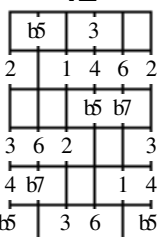
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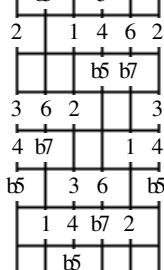
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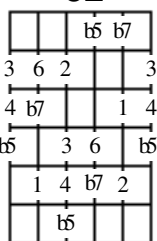
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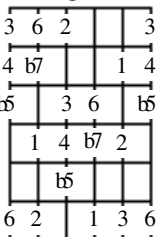
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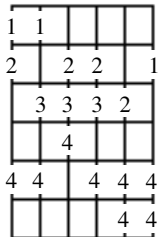
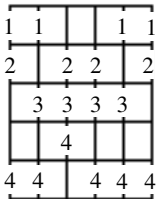
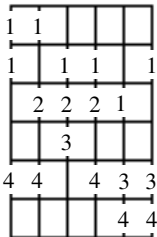
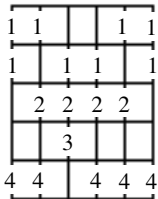
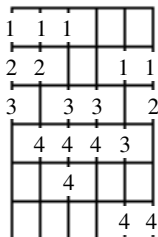
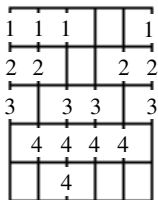
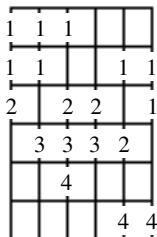
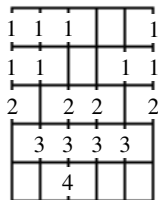
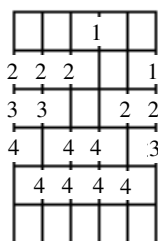
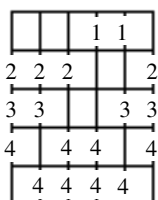
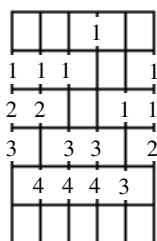
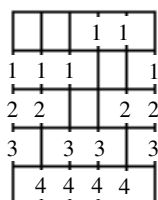
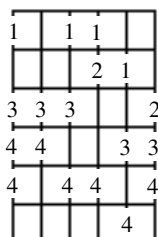
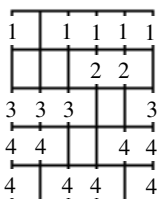
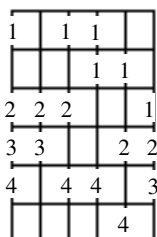
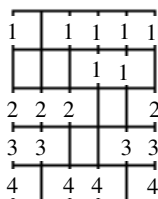
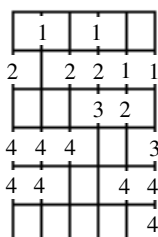
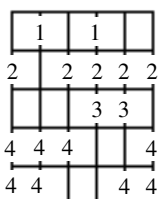
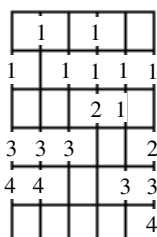
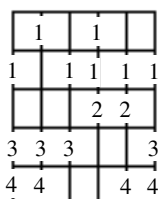
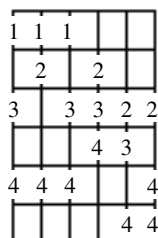
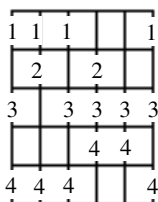
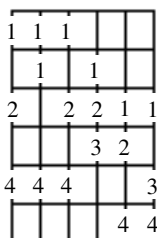
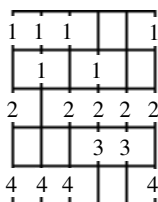
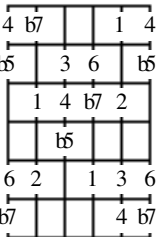
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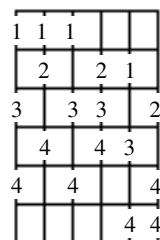
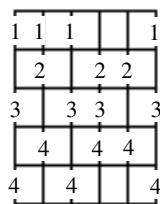
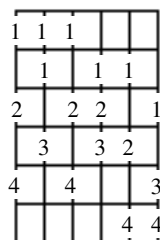
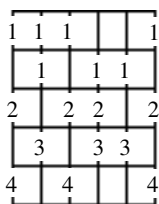
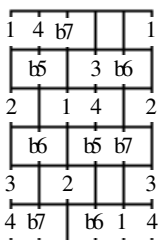
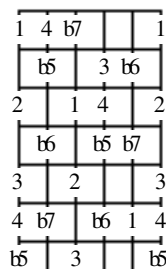


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Mixolydian b5b6 scale

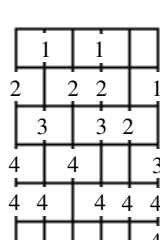
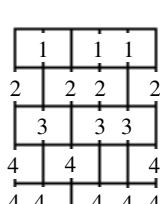
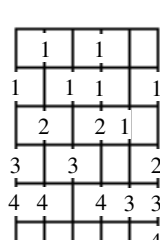
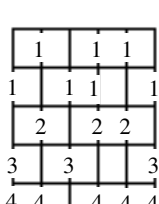
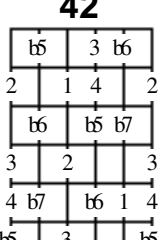
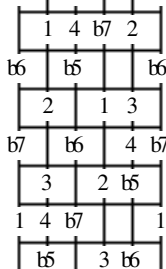
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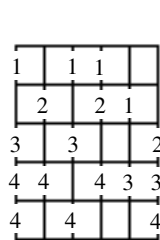
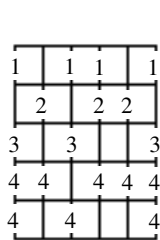
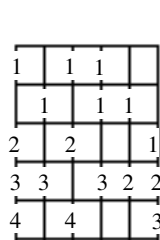
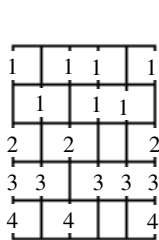
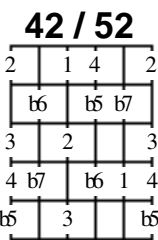
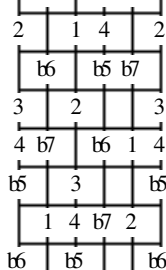
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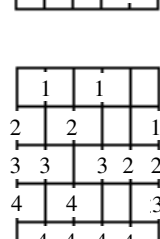
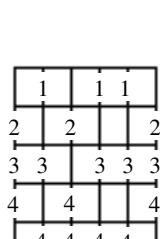
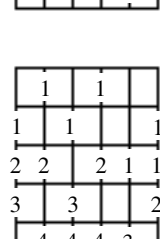
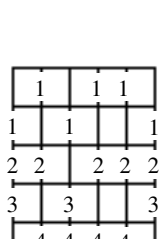
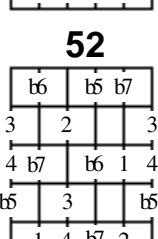
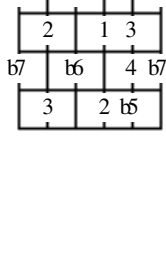
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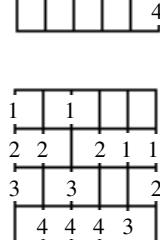
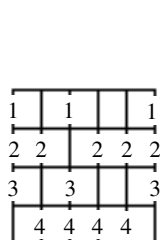
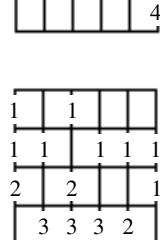
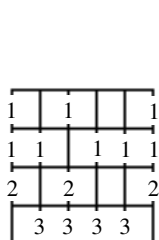
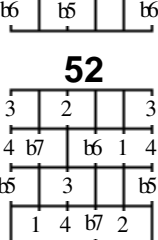
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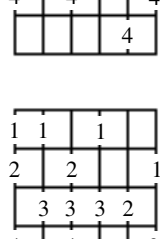
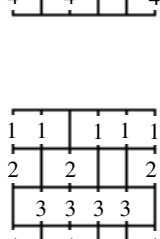
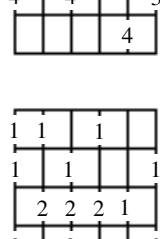
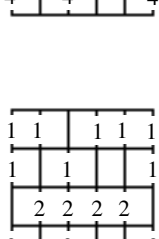
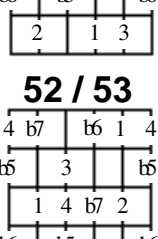
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3



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4

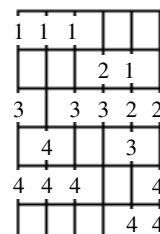
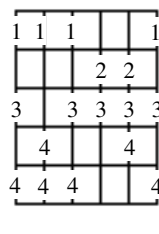
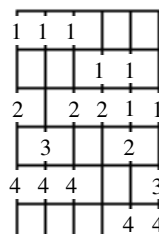
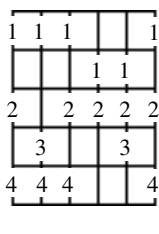
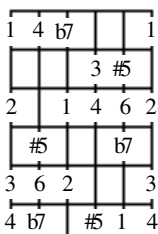
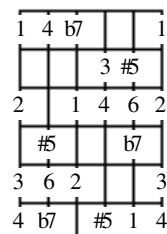


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Mixolydian #5 scale

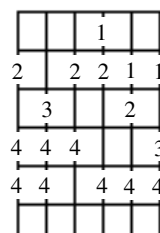
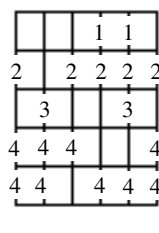
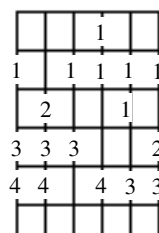
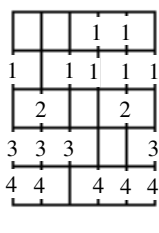
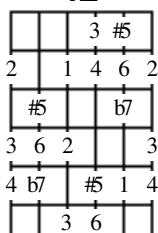
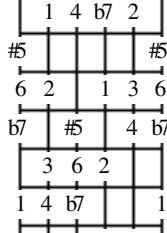
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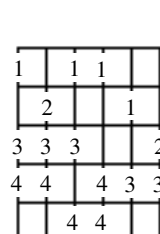
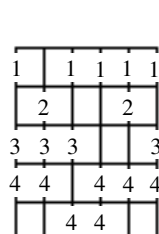
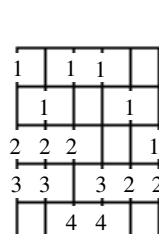
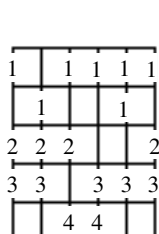
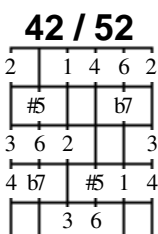
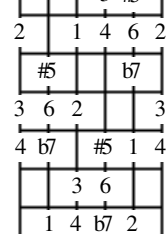
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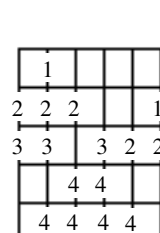
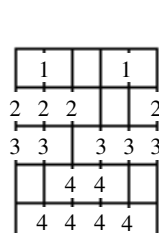
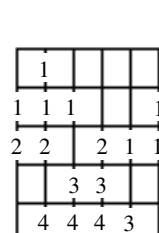
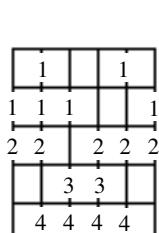
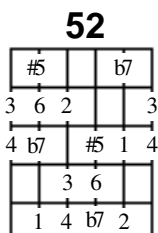
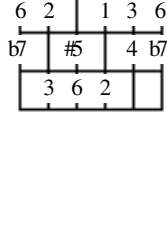
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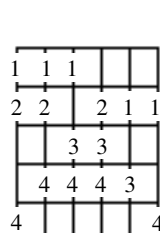
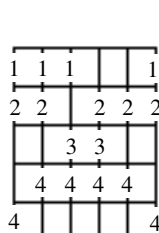
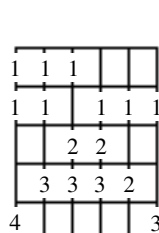
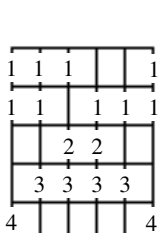
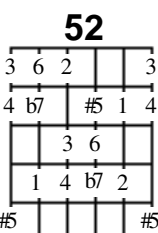
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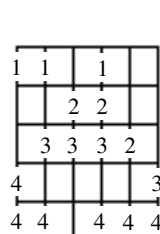
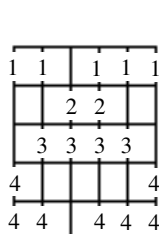
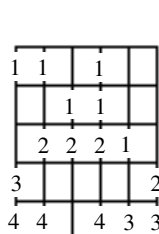
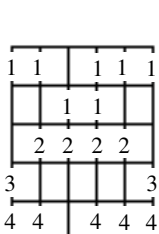
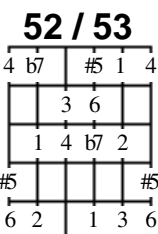
52

3



52 / 53

4



53

b5

53 / 631

5

631

b6

631

6

641

b7

641

7

Mixolydian b6 scale (= Aeolian natural 3 = mel. min. V)

1

2

3

4

b2

b3

641 / 42

42

42 / 52

52

52

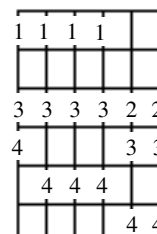
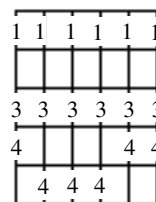
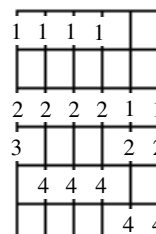
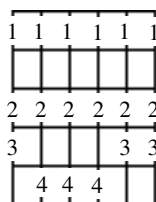
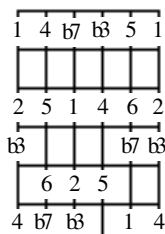
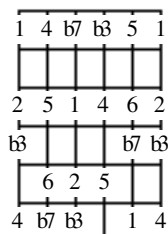
52 / 53

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	<p>53 / 631</p> <p>5</p> <p>5 1 4 b7 2 5</p> <p>b6 b6</p> <p>2 5 1 3</p> <p>b7 b6 4 b7</p> <p>3 2</p> <p>1 4 b7 5 1</p>	<p>1 1 1 1 1</p> <p>1 2 2 2 2</p> <p>3 3 3 3</p> <p>4 4 4</p>	<p>1 1 1 1</p> <p>1 2 2 2 1</p> <p>3 3 2 2</p> <p>4 4 4</p>	<p>1 1 1 1 1</p> <p>2 2 2 2</p> <p>3 3 3 3</p> <p>4 4 4 4</p>	<p>1 1 1 1</p> <p>2 2 2 1</p> <p>3 3 3 2</p> <p>4 4 3 3</p> <p>4 4 4 4</p>
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Dorian mode (= major b3b7 = Mixolydian b3)

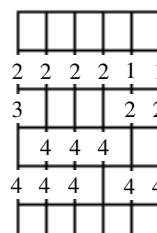
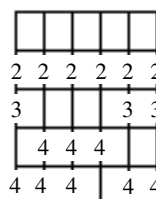
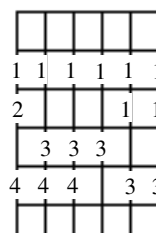
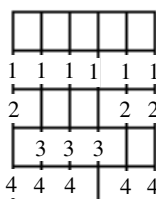
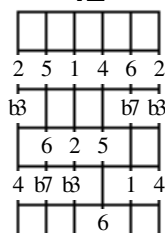
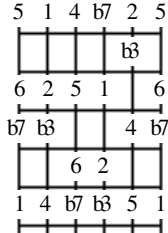
641 / 42

1



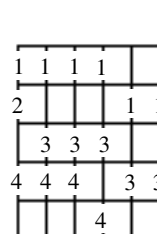
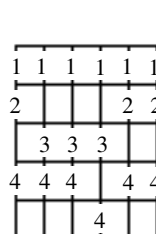
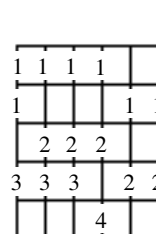
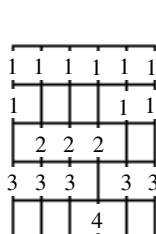
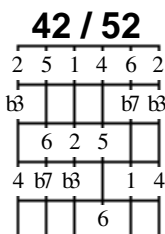
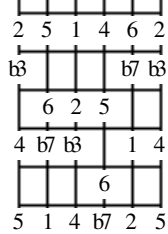
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b2



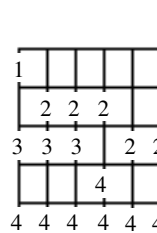
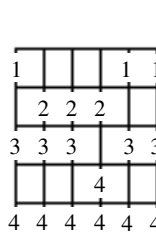
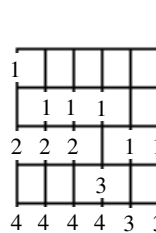
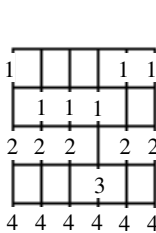
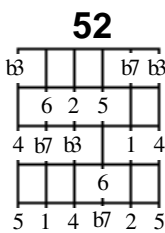
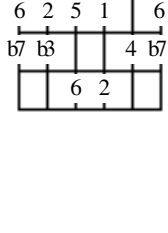
42 / 52

2



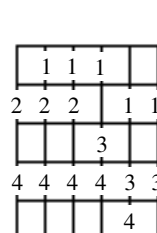
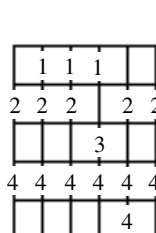
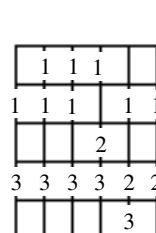
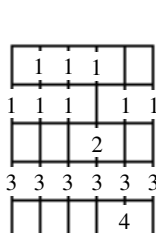
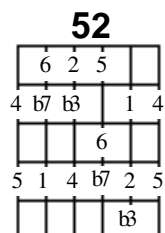
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b3



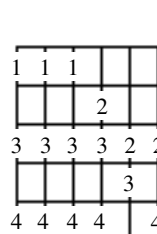
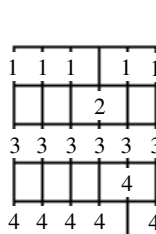
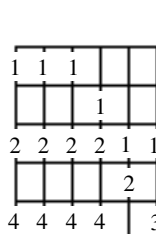
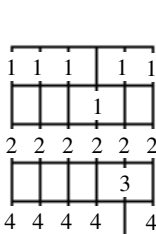
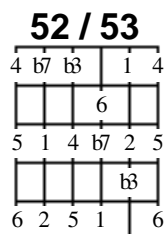
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3



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4

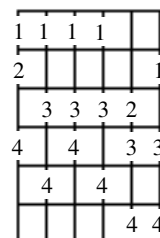
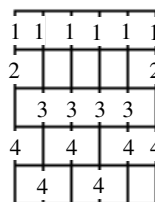
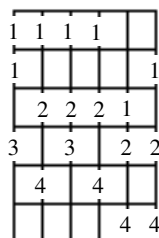
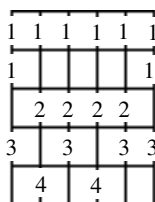
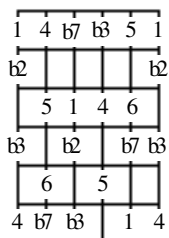
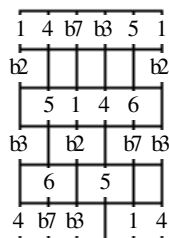


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		<p>53 / 631</p> <p>5 1 4 b7 2 5</p> <p>6 2 5 1 6</p> <p>b7 b3 4 b7</p> <p>6 2</p> <p>1 4 b7 b3 5 1</p>	<p>1 1 1 1 1 1</p> <p>2 2 2 2 2</p> <p>3 3 3 3</p> <p>4 4</p>	<p>1 1 1 1 1 1</p> <p>2 2 2 2 1</p> <p>3 3 2 2</p> <p>4 4 4</p>	<p>1 1 1 1 1 1</p> <p>3 3 3 3 3</p> <p>4 4 4 4</p>	<p>1 1 1 1 1 1</p> <p>3 3 3 3 2</p> <p>4 4 3 3</p> <p>4 4</p>	
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7							

Dorian b2 (= Phrygian natural 6 = mel. min. II)

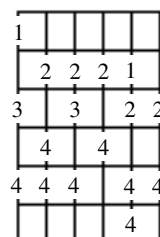
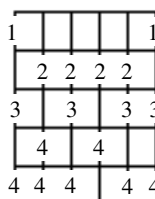
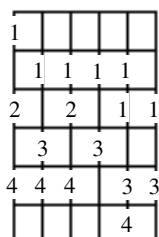
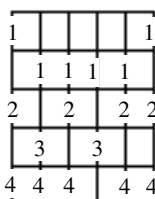
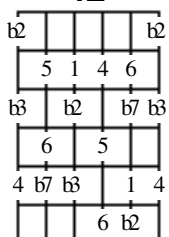
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1



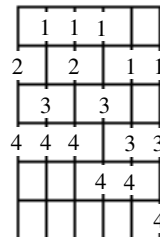
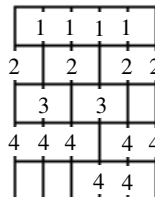
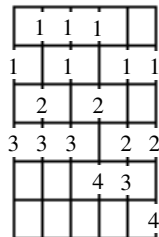
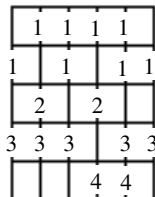
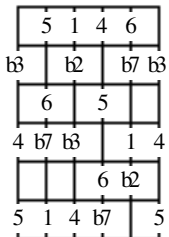
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b2



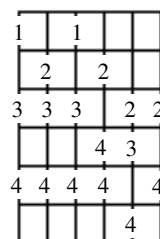
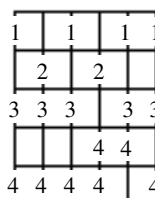
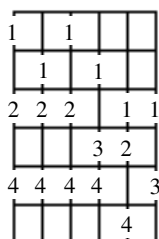
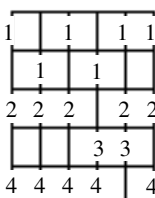
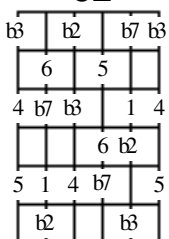
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2



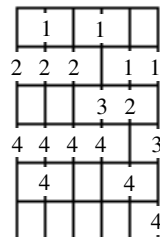
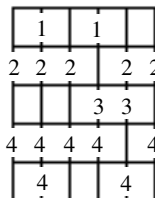
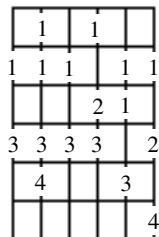
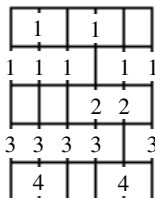
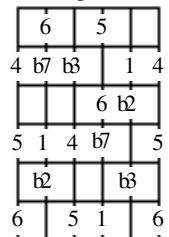
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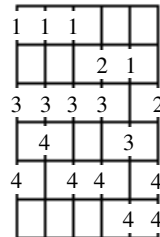
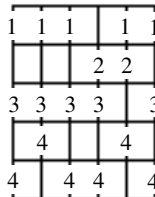
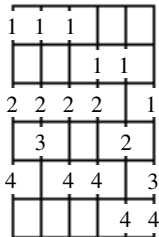
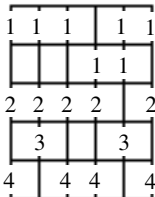
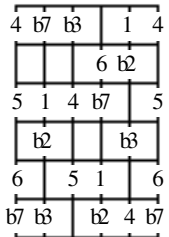
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3



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4



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	b5					
	5	<p>53 / 631 5 1 4 b7 5 b2 b3 6 5 1 6 b7 b3 b2 4 b7 6 1 4 b7 b3 5 1</p>	<p>1 1 1 1 1 1 1 2 2 2 2 3 3 3 3 3 4</p>	<p>1 1 1 1 1 1 1 2 2 2 1 3 3 3 2 2 4 4</p>	<p>1 1 1 1 2 2 3 3 3 3 4 4 4 4 4</p>	<p>1 1 1 1 2 1 3 3 3 2 4 4 4 3 3 4 4</p>
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1

1	b7	b3	5	1
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5	1	6		
b3	b2	#4	b7	b3
6	5			
b7	b3		1	

1	b7	b3	5	1
b2	#4			b2
5	1	6		
b3	b2	#4	b7	b3
6	5			
b7	b3		1	

1	1	1	1	1
1	1			1
2	2	2	2	
3	3	3	3	3
4	4			

1	1	1		
1	1			1
2	2		1	
3	3	3	2	2
4	4			
			4	

1	1	1	1	1
2	2			2
3	3		3	
4	4	4	4	4
4	4			

1	1	1		
2	2			1
3	3		2	
4	4	4	3	3
4	4			
			4	

42

b2

5	1	b7		5
b2	#4		b3	
6	5	1		6
b7	b3	b2		b7
	6	#4		
1	b7	b3	5	1
b2	#4			b2
5	1	6		
b3	b2	#4	b7	b3
6	5			
b7	b3		1	
#4		6	b2	#4

b2	#4			b2
5	1	6		
b3	b2	#4	b7	b3
6	5			
b7	b3		1	
#4		6	b2	#4

1	1			1
1	1			1
2	2	2	2	2
3	3			
4	4			

1	1			
1	1			1
2	2	2	1	1
3	3			
4	4		3	
			4	4

1	1			1
2	2			2
3	3	3	3	3
4	4			
4	4			

1	1			
2	2			1
3	3	3	2	2
4	4			
4	4			
			4	4

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2

5	1	6		
b3	b2	#4	b7	b3
6	5			
b7	b3		1	
#4		6	b2	#4
5	1	b7		5
b2	#4		b3	
6	5	1		6
b7	b3	b2		b7

5	1	6		
b3	b2	#4	b7	b3
6	5			
b7	b3		1	
#4		6	b2	#4
5	1	b7		5

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2	2			
3	3			
4		4	4	4

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2	2			
3	3		2	
4			4	3
			4	4

1	1			1
2	2	2	2	2
3	3			
4	4			
4			4	4

1	1			
2	2	2	1	1
3	3			
4	4			
4			4	4
			4	4

52

b3

6	5			
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#4		6	b2	#4
5	1	b7		5
b2	#4		b3	
6	5	1		6
b7	b3	b2		b7

b3	b2	#4	b7	b3
6	5			
b7	b3		1	
#4		6	b2	#4
5	1	b7		5
b2	#4		b3	

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2	2			
3		3	3	3
4	4		4	4

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1	1			
2	2		1	
3		3	2	2
4	4		4	3
			4	

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4	4		4	4

1	1			
2	2			
3	3		2	
4			4	3
4	4		4	4
			4	

52

3

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#4		6	b2	#4
5	1	b7		5
b2	#4		b3	
6	5	1		6

6	5			
b7	b3		1	
#4		6	b2	#4
5	1	b7		5
b2	#4		b3	
6	5	1		6

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1	1			
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3	3		3	3
4	4		4	

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1	1			
2		2	1	1
3	3		3	2
4	4		4	3
			4	

1	1			
2	2			
3		3	3	3
4	4		4	4
4	4		4	

1	1			
2	2			
3		3	2	2
4	4		4	3
4	4		4	
			4	4

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4

b7	b3		1	
#4		6	b2	#4
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b2	#4		b3	
6	5	1		6
b7	b3	b2		b7

b7	b3		1	
#4		6	b2	#4
5	1	b7		5
b2	#4		b3	
6	5	1		6
b7	b3	b2		b7

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2	2		2	2
3	3		3	
4	4	4	4	4

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2	2		2	1
3	3		3	2
4	4	4	4	3
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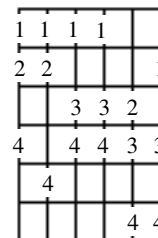
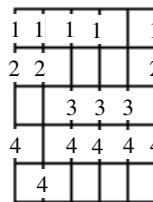
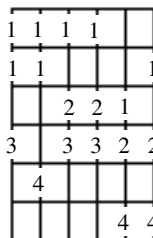
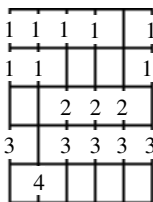
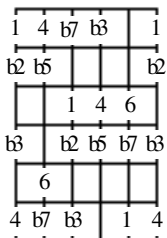
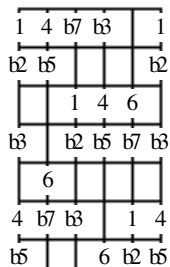
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#4			6	b2	#4																																
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b2	#4			b2																																	
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#4			6	b2	#4	1		b7	b3	5	1	b2	#4		b2																						
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Dorian b2b5 scale

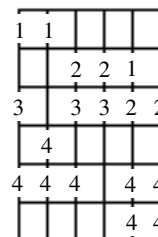
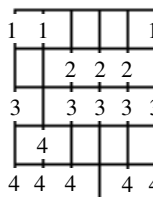
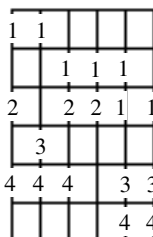
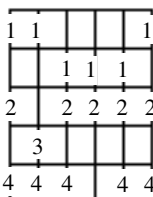
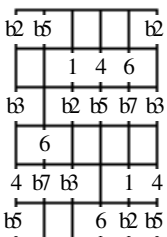
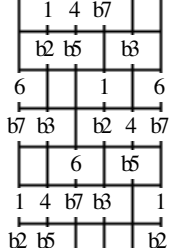
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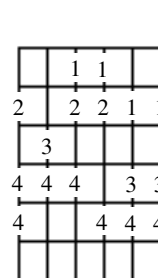
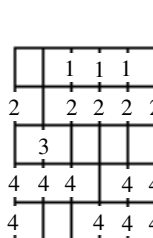
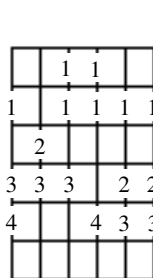
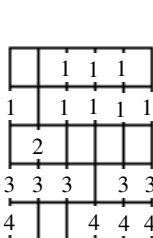
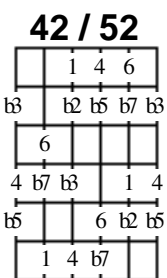
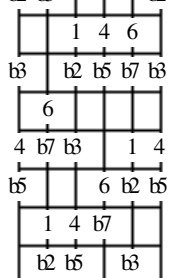
42

b2



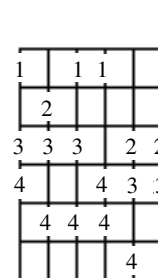
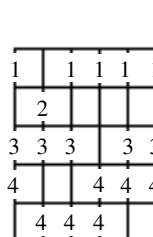
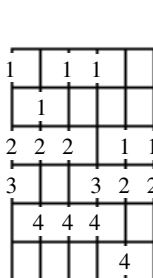
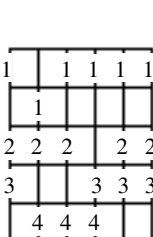
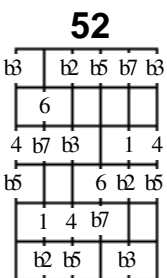
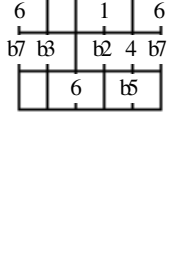
42 / 52

2



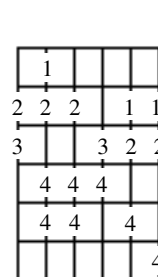
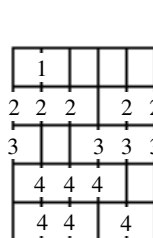
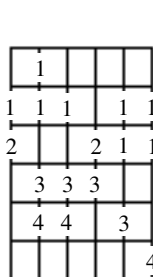
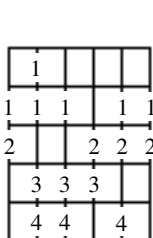
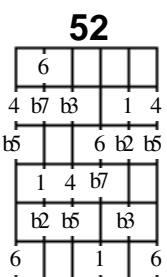
52

b3



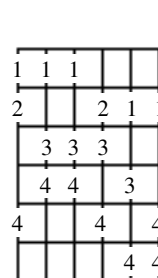
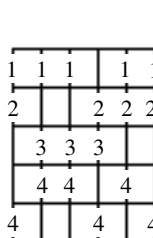
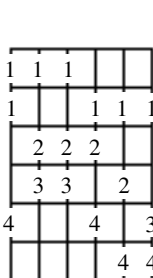
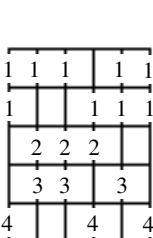
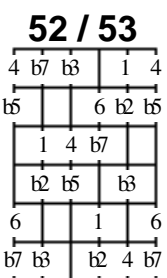
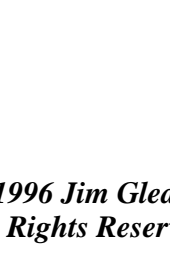
52

3



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4

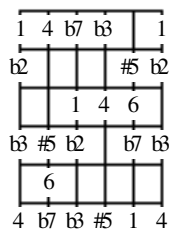


</																								

Dorian b2#5 scale

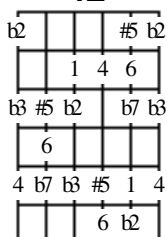
641 / 42

1



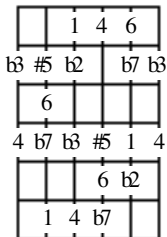
42

b2



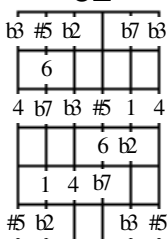
42 / 52

2



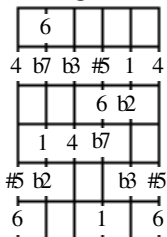
52

b3



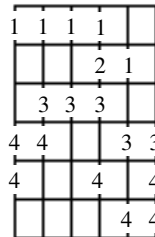
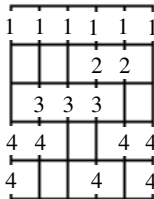
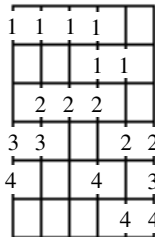
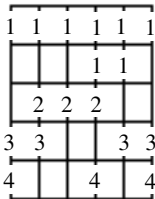
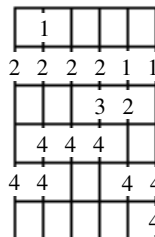
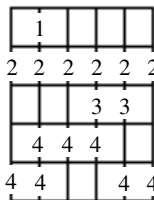
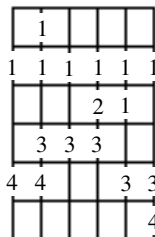
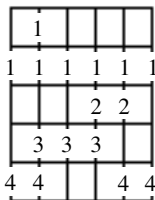
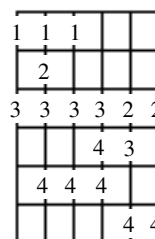
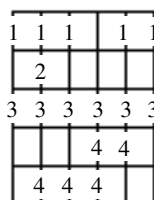
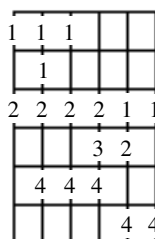
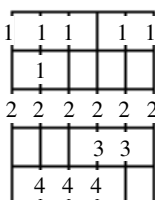
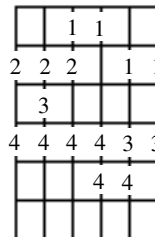
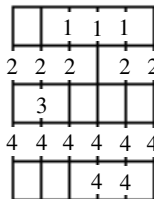
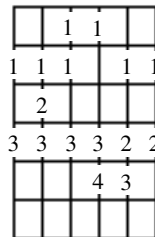
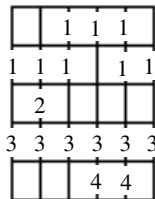
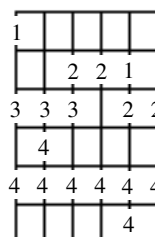
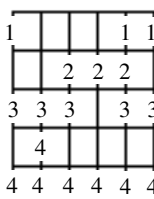
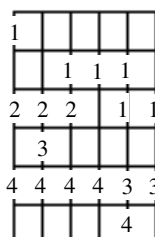
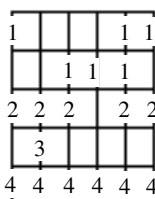
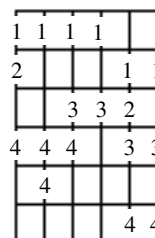
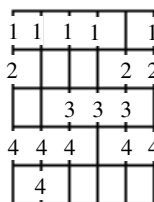
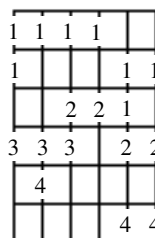
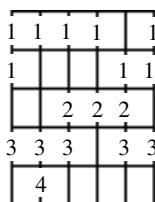
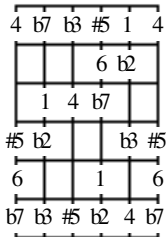
52

3



52 / 53

4



53

b5

53 / 631

5

631

b6

631

6

641

b7

641

7

The diagrams are organized into rows and columns. Each diagram represents a specific fret (53, 53/631, 631, 641) and a specific voicing (b5, b6, b7). The diagrams show the fretboard with fingerings (1-4) and accidentals (b, #) for each note. The diagrams are arranged in a grid-like fashion, with the fret number and voicing label to the left of the diagram.

Dorian #4 scale (harmonic minor IV)

641 / 42

1

42

1		1	1		
	1				
2	2	2		1	1
3			3	2	2
	4	4	4		
				4	

1	1	1	
2			
3	3	3	2 2
4		4	3 2
	4	4	
			4

b2

	1			
1	1	1		1
2			2	2
	3	3	3	
	4	4		4

	1				
1	1	1		1	1
2			2	1	1
	3	3	3		
	4	4		3	
					4

1			
2	2	2	2
3			3
4	4	4	
4	4		4

1			
2	2	2	1
3			3
4	4	4	
4	4		4

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2

1	1	1	1	1
1			1	1
	2	2		
	3	3	3	
4			4	4

1	1	1			
1			1	1	1
	2	2	2		
	3	3		2	
4			4		3
				4	4

1	1	1	1	1
2			2	2
	3	3	3	
	4	4	4	
4			4	4

1	1	1		
2			2	1
	3	3	3	
	4	4		3
4			4	
				4

52

b3

52

b3		#4	b7	b3
	6	2	5	
	b7	b3	1	
#4			6	#4
5	1		b7	2
		#4		b3

A 4x5 grid of squares. The numbers are placed at the corners and midpoints of the edges:

- Top edge: 1 at the left corner, 1 at the midpoint between the 2nd and 3rd squares, 1 at the right corner.
- Right edge: 1 at the top corner, 2 at the midpoint between the 2nd and 3rd rows, 3 at the bottom corner.
- Bottom edge: 4 at the left corner, 4 at the midpoint between the 2nd and 3rd squares, 4 at the right corner.
- Left edge: 4 at the bottom corner, 3 at the midpoint between the 2nd and 3rd rows, 2 at the top corner.

1			1	
	1	1	1	
	2	2		1
3			3	2
4	4		4	3
				4

1		1	1	1
2	2	2		
3	3		3	
4		4		4
4	4	4	4	4

1			1	
	2	2	2	
	3	3		2
4			4	
4	4		4	4
			4	

52

3

52

	1	1	1	
	1	1		1
2			2	2
3	3		3	3
		4		4

	1	1	1	
	1	1		1
2			2	1
3	3		3	2
		4		3
				4

	1	1	1		
	2	2		2	
3				3	3
4	4		4	4	4
		4		4	

	1	1	1	
	2	2		1
3			3	2
4	4		4	3
		4		4
				4

52 / 53

4

52 / 53

Diagram 52/53 shows a musical staff with various notes, accidentals, and stems. The notation is complex, featuring many accidentals (sharps, flats, naturals) and stems, suggesting a highly chromatic or altered piece of music. The staff is divided into measures by vertical bar lines.

	1	1		1	
2				2	
3	3			3	3
		4		4	
4	4	4	4		4

	1	1		
2			2	
3	3		3	2
		4		3
4	4	4	4	

<p>1 | b7 b3 5 1</p> <p>#4 | | |</p> <p>2 5 1 | 6 2</p> <p>b3 | #4 b7 b3</p> <p>6 2 5 |</p> <p>b7 b3 | 1</p> <p>#4 | 6 #4</p> <p>5 1 | b7 2 5</p> <p>| #4 b3</p> <p>6 2 5 1 | 6</p> <p>b7 b3 | b7</p> <p>| 6 2 #4</p> <p>1 | b7 b3 5 1</p> <p>#4 | | |</p> <p>2 5 1 | 6 2</p> <p>b3 | #4 b7 b3</p> <p>6 2 5 |</p> <p>b7 b3 | 1</p> <p>#4 | 6 #4</p> <p>5 1 | b7 2 5</p> <p>| #4 b3</p> <p>6 2 5 1 | 6</p> <p>b7 b3 | b7</p> <p>| 6 2 #4</p>	b5	<p>53</p> <p>#4 | 6 #4</p> <p>5 1 | b7 2 5</p> <p>| #4 b3</p> <p>6 2 5 1 | 6</p> <p>b7 b3 | b7</p> <p>| 6 2 #4</p>	<p>1 | | 1 1</p> <p>1 1 | 1 1 1</p> <p>| 2 2</p> <p>3 3 3 3 | 3</p> <p>4 4 | 4</p>	<p>1 | | 1 1</p> <p>1 1 | 1 1 1</p> <p>| 2 1</p> <p>3 3 3 3 | 2</p> <p>4 4 | 3</p> <p>| 4</p>	<p>1 | | 1 1</p> <p>2 2 | 2 2 2</p> <p>| 3 3</p> <p>4 4 4 4 | 4</p> <p>4 4 | 4</p>	<p>1 | | 1 1</p> <p>2 2 | 2 1 1</p> <p>| 3 2</p> <p>4 4 4 4 | 3</p> <p>4 4 | 4</p> <p>| 4</p>
	5	<p>53 / 631</p> <p>5 1 | b7 2 5</p> <p>| #4 b3</p> <p>6 2 5 1 | 6</p> <p>b7 b3 | b7</p> <p>| 6 2 #4</p> <p>1 | b7 b3 5 1</p>	<p>1 1 | 1 1 1</p> <p>| 1 1</p> <p>2 2 2 2 | 2</p> <p>3 3 | 3</p> <p>| 4 4 4</p>	<p>1 1 | 1 1</p> <p>| 1 1</p> <p>2 2 2 2 | 1</p> <p>3 3 | 2</p> <p>| 4 4 3</p> <p>| 4 4</p>	<p>1 1 | 1 1 1</p> <p>| 2 2</p> <p>3 3 3 3 | 3</p> <p>4 4 | 4</p> <p>| 4 4 4</p>	<p>1 1 | 1 1</p> <p>| 2 1</p> <p>3 3 3 3 | 2</p> <p>4 4 | 3</p> <p>| 4 4 4</p> <p>| 4 4</p>
	b6	<p>631</p> <p>| #4 b3</p> <p>6 2 5 1 | 6</p> <p>b7 b3 | b7</p> <p>| 6 2 #4</p> <p>1 | b7 b3 5 1</p> <p>#4 | | |</p>	<p>| 1 1</p> <p>1 1 1 1 | 1</p> <p>2 2 | 2</p> <p>| 3 3 3</p> <p>4 | 4 4 4 4</p>	<p>| 1 1</p> <p>1 1 1 1 | 1</p> <p>2 2 | 1</p> <p>| 3 3 2</p> <p>4 | 4 4 3 3</p>	<p>| 1 1</p> <p>2 2 2 2 | 2</p> <p>3 3 | 3</p> <p>4 | 4 4 4 4</p>	<p>| 1 1</p> <p>2 2 2 2 | 1</p> <p>3 3 | 2</p> <p>4 | 4 4 3</p> <p>4 | 4 4 4</p>
	6	<p>631</p> <p>6 2 5 1 | 6</p> <p>b7 b3 | b7</p> <p>| 6 2 #4</p> <p>1 | b7 b3 5 1</p> <p>#4 | | |</p> <p>2 5 1 | 6 2</p>	<p>1 1 1 1 | 1</p> <p>1 1 | 1</p> <p>| 2 2 2</p> <p>3 | 3 3 3 3</p> <p>4 | 4</p>	<p>1 1 1 1 | 1</p> <p>1 1 | 1</p> <p>| 2 2 1</p> <p>3 | 3 3 2 2</p> <p>4 | 4</p> <p>| 4 4</p>	<p>1 1 1 1 | 1</p> <p>2 2 | 2</p> <p>| 3 3 3</p> <p>4 | 4 4 4 4</p> <p>4 | 4</p>	<p>1 1 1 1 | 1</p> <p>2 2 | 1</p> <p>| 3 3 2</p> <p>4 | 4 4 3 3</p> <p>| 4</p> <p>| 4 4</p>
	b7	<p>641</p> <p>b7 b3 | b7</p> <p>| 6 2 #4</p> <p>1 | b7 b3 5 1</p> <p>#4 | | |</p> <p>2 5 1 | 6 2</p> <p>b3 | #4 b7 b3</p>	<p>1 1 | 1 1 1</p> <p>2 | 2 2 2 2</p> <p>| 3</p> <p>4 4 4 | 4 4</p>	<p>1 1 | 1 1 1</p> <p>2 | 2 2 1 1</p> <p>| 3</p> <p>4 4 4 | 3 3</p> <p>| 4 4</p>	<p>1 1 | 1 1 1</p> <p>| 2 2 2</p> <p>3 | 3 3 3 3</p> <p>4 | 4</p> <p>4 4 4 | 4 4</p>	<p>1 1 | 1 1</p> <p>| 2 2 1</p> <p>3 | 3 3 2 2</p> <p>4 | 4</p> <p>4 4 4 | 4 4</p> <p>| 4 4</p>
	7	<p>641</p> <p>| 6 2 #4</p> <p>1 | b7 b3 5 1</p> <p>#4 | | |</p> <p>2 5 1 | 6 2</p> <p>b3 | #4 b7 b3</p> <p>| 6 2 5</p>	<p>| 1 1 1</p> <p>1 | 1 1 1 1</p> <p>| 2</p> <p>3 3 3 | 3 3</p> <p>4 | 4 4 4</p>	<p>| 1 1</p> <p>1 | 1 1 1 1</p> <p>| 2</p> <p>3 3 3 | 2 2</p> <p>4 | 4 3 3</p>	<p>| 1 1 1</p> <p>2 | 2 2 2 2</p> <p>| 3</p> <p>4 4 4 | 4 4</p> <p>4 | 4 4 4</p>	<p>| 1 1</p> <p>2 | 2 2 1 1</p> <p>| 3</p> <p>4 4 4 | 3 3</p> <p>4 | 4 4 4</p>

Dorian #4#5 scale

641 / 42

1

1	b7	b3	1
#4		#5	
2	1	6	2
b3	#5	#4	b7

6	2		
b7	b3	#5	1

#4		6	#4
----	--	---	----

1	b7	2	
---	----	---	--

#5	#4	b3	#5
----	----	----	----

6	2	1	6
---	---	---	---

b7	b3	#5	
----	----	----	--

	6	2	#4
--	---	---	----

1	b7	b3	1
---	----	----	---

#4		#5	
----	--	----	--

2	1	6	2
---	---	---	---

b3	#5	#4	b7
----	----	----	----

6	2		
---	---	--	--

b7	b3	#5	1
----	----	----	---

#4		6	#4
----	--	---	----

1	b7	2	
---	----	---	--

#5	#4	b3	#5
----	----	----	----

6	2	1	6
---	---	---	---

b7	b3	#5	
----	----	----	--

	6	2	#4
--	---	---	----

42

b2

#4		#5	
----	--	----	--

2	1	6	2
---	---	---	---

b3	#5	#4	b7
----	----	----	----

6	2		
---	---	--	--

b7	b3	#5	1
----	----	----	---

#4		6	#4
----	--	---	----

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2

2	1	6	2
---	---	---	---

b3	#5	#4	b7
----	----	----	----

6	2		
---	---	--	--

b7	b3	#5	1
----	----	----	---

#4		6	#4
----	--	---	----

1	b7	2	
---	----	---	--

52

b3

b3	#5	#4	b7
----	----	----	----

6	2		
---	---	--	--

b7	b3	#5	1
----	----	----	---

#4		6	#4
----	--	---	----

1	b7	2	
---	----	---	--

#5	#4	b3	#5
----	----	----	----

3

52

6	2		
---	---	--	--

b7	b3	#5	1
----	----	----	---

#4		6	#4
----	--	---	----

1	b7	2	
---	----	---	--

#5	#4	b3	#5
----	----	----	----

6	2	1	6
---	---	---	---

52 / 53

4

b7	b3	#5	1
----	----	----	---

#4		6	#4
----	--	---	----

1	b7	2	
---	----	---	--

#5	#4	b3	#5
----	----	----	----

6	2	1	6
---	---	---	---

b7	b3	#5	
----	----	----	--

1	1	1	1
1			1
2	2	2	2
3	3	3	3
4	4		

1	1	1	
1			1
2	2	1	1
3	3	3	2
4	4		
		4	

1	1	1	1
2			2
3	3	3	3
4	4	4	4
4	4		

1	1	1	
2			1
3	3	2	2
4	4	4	3
4	4		
		4	

1			1
1	1	1	1
2	2	2	2
3	3		
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Dorian b5 scale

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1

42

1	1	1	1		
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2		2	2	1	1
3			3	2	2
	4	4			
				4	4

1	1	1	1		
	2				
3		3	3	2	2
4			4	3	3
	4	4			
				4	4

b2

	1			
1		1	1	1
2			2	2
	3	3		
4	4	4		4

1				
2	2	2	2	2
3		3	3	3
4	4			
4	4	4		4

1				
2		2	2	1
3			3	2
	4	4		
4	4	4		4
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2

1		1	1	1	1
1			1	1	1
	2	2			
3	3	3		3	3
4			4		4

1		1	1		
1			1	1	1
	2	2			
3	3	3		2	2
4			4		3
				4	

1	1	1	1	1
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4	4	4	4	4
4		4		4

1		1	1		
2				2	1
	3	3			
4	4	4		3	3
4			4		4
				4	

52

b3

A 4x4 grid divided into four 2x2 subgrids. The numbers 1, 2, 3, and 4 are placed in the corners of each subgrid. The top-left subgrid has 1 in its top-left and top-right corners, and 2 in its bottom-left and bottom-right corners. The top-right subgrid has 1 in its top-left and top-right corners, and 3 in its bottom-left and bottom-right corners. The bottom-left subgrid has 2 in its top-left and top-right corners, and 4 in its bottom-left and bottom-right corners. The bottom-right subgrid has 3 in its top-left and top-right corners, and 4 in its bottom-left and bottom-right corners.

1			1		
	1	1			
2	2	2		1	1
3			3		2
	4	4	4	3	
				4	

1			1	1	1
	2	2			
3	3	3		3	3
4			4		4
	4	4	4	4	

1			1	
	2	2		
3	3	3		2
4			4	
	4	4	4	4
				4

52

3

	1	1			
1	1	1		1	1
2			2		1
	3	3	3	2	
		4		3	
					4

	1	1		
2	2	2		2
3			3	
	4	4	4	4
		4		4

	1	1			
2	2	2		1	1
3			3		2
	4	4	4	3	
		4		4	
					4

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4

1	1	1	1	1
1			1	1
	2	2	2	2
		3		3
4	4		4	4

1	1	1			
1				1	1
	2	2	2	1	
		3		2	
4	4		4		3
				4	4

A 4x4 grid divided into four 2x2 subgrids. The numbers 1, 2, 3, and 4 are placed in the corners of each subgrid. The top-left subgrid has 1s in its corners, the top-right has 2s, the bottom-left has 3s, and the bottom-right has 4s.

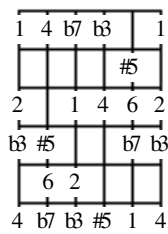
1	1	1			
2			2		
	3	3	3	2	
		4		3	
4	4		4		4
				4	4

<p>1 4 b7 b3 1</p> <p>b5</p> <p>2 1 4 6 2</p> <p>b3 b5 b7 b3</p> <p>6 2</p> <p>4 b7 b3 1 4</p> <p>b5 6 b5</p> <p>1 4 b7 2</p> <p>b5 b3</p> <p>6 2 1 6</p> <p>b7 b3 4 b7</p> <p>6 2 b5</p> <p>1 4 b7 b3 1</p> <p>b5</p> <p>2 1 4 6 2</p> <p>b3 b5 b7 b3</p> <p>6 2</p> <p>4 b7 b3 1 4</p> <p>b5 6 b5</p> <p>1 4 b7 2</p> <p>b5 b3</p> <p>6 2 1 6</p> <p>b7 b3 4 b7</p> <p>6 2 b5</p>	<p>53</p>	<p>b5 6 b5</p> <p>1 4 b7 2</p> <p>b5 b3</p> <p>6 2 1 6</p> <p>b7 b3 4 b7</p> <p>6 2 b5</p>	<p>1 1 1 1</p> <p>1 1 1 1</p> <p>2 2</p> <p>3 3 3 3</p> <p>4 4 4 4</p>	<p>1 1 1 1</p> <p>1 1 1 1</p> <p>2 1</p> <p>3 3 3 2</p> <p>4 4 3 3</p> <p>4</p>	<p>1 1 1 1</p> <p>2 2 2 2</p> <p>3 3</p> <p>4 4 4 4</p> <p>4 4 4 4</p>	<p>1 1 1 1</p> <p>2 2 2 1</p> <p>3 2</p> <p>4 4 4 3</p> <p>4 4 4 4</p> <p>4</p>
<p>b5</p>	<p>53 / 631</p>	<p>1 4 b7 2</p> <p>b5 b3</p> <p>6 2 1 6</p> <p>b7 b3 4 b7</p> <p>6 2 b5</p> <p>1 4 b7 b3 1</p>	<p>1 1 1 1</p> <p>1 1</p> <p>2 2 2 2</p> <p>3 3 3 3</p> <p>4 4 4</p>	<p>1 1 1 1</p> <p>1 1</p> <p>2 2 2 1</p> <p>3 3 2 2</p> <p>4 4 3</p> <p>4</p>	<p>1 1 1 1</p> <p>2 2</p> <p>3 3 3 3</p> <p>4 4 4 4</p> <p>4 4 4</p>	<p>1 1 1 1</p> <p>2 1</p> <p>3 3 3 2</p> <p>4 4 3 3</p> <p>4 4 4</p> <p>4</p>
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Dorian #5 scale

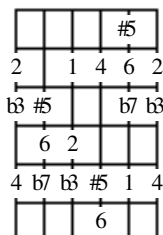
641 / 42

1



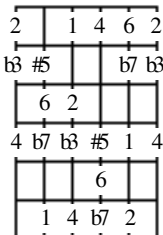
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b2



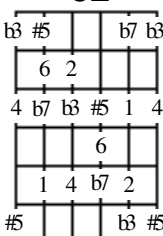
42 / 52

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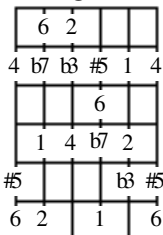
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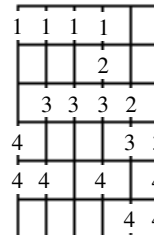
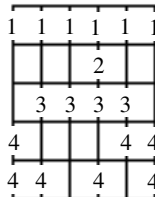
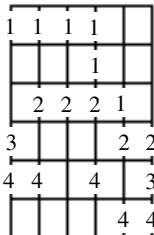
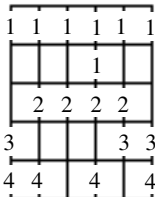
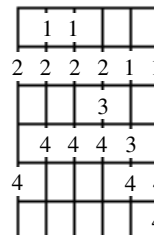
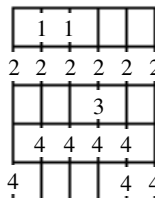
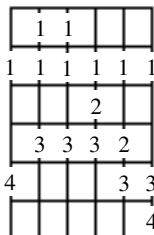
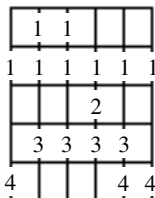
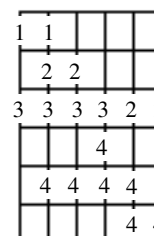
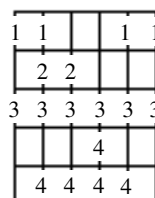
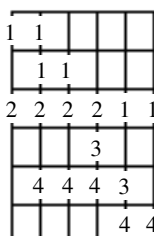
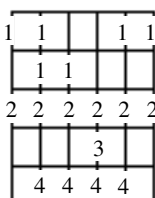
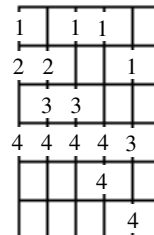
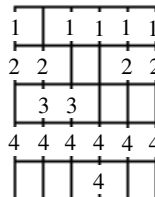
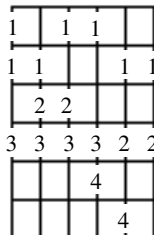
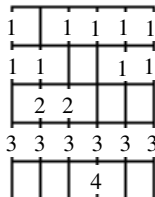
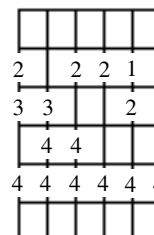
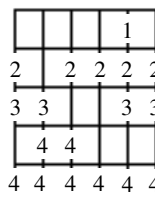
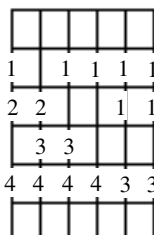
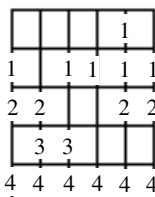
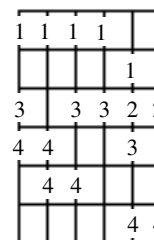
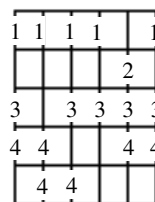
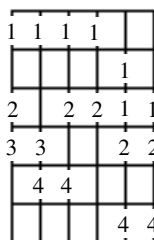
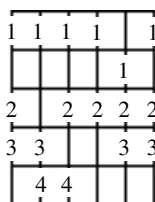
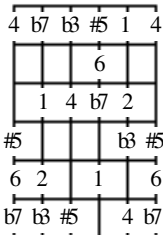
52

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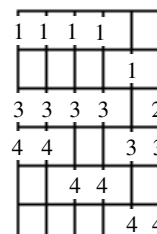
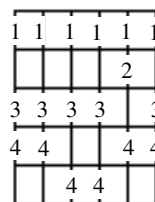
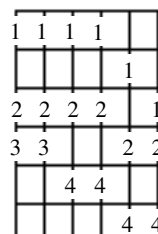
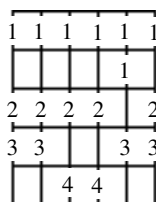
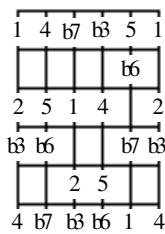
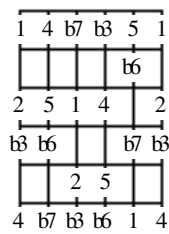


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Aeolian mode (= major b3b6b7, Dorian b6)

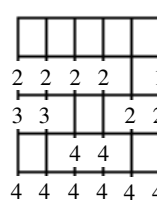
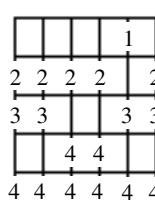
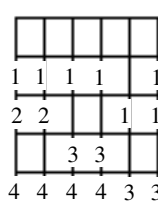
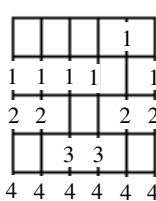
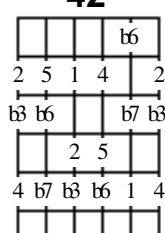
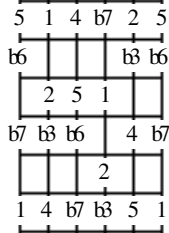
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1



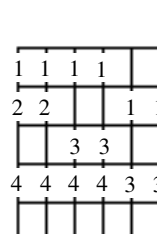
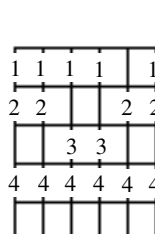
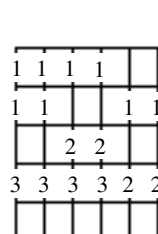
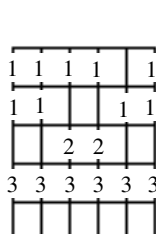
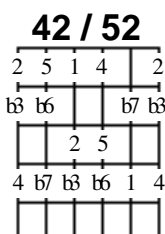
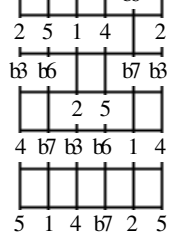
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b2



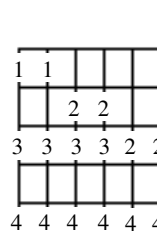
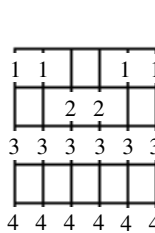
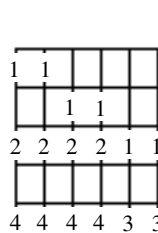
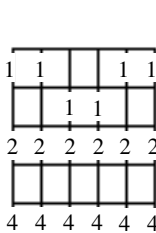
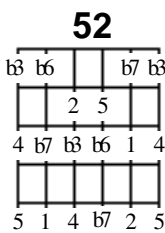
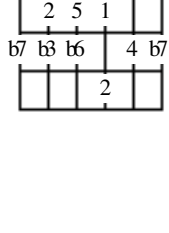
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2



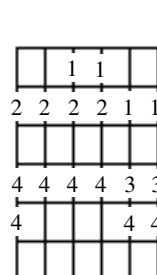
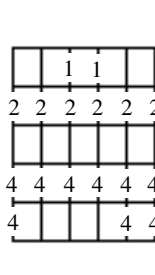
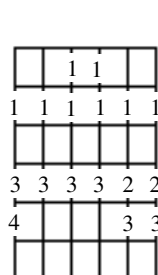
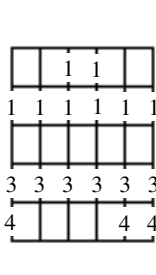
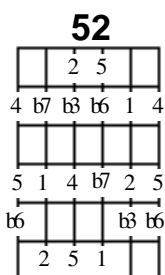
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b3



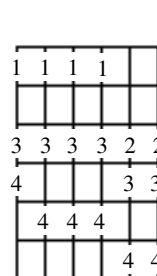
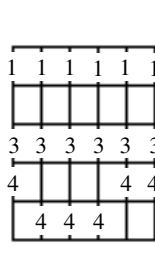
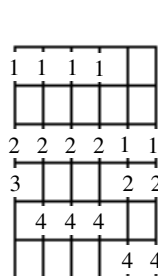
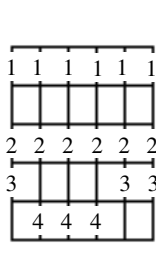
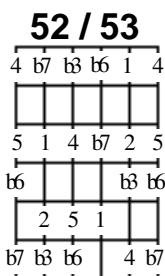
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3



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4

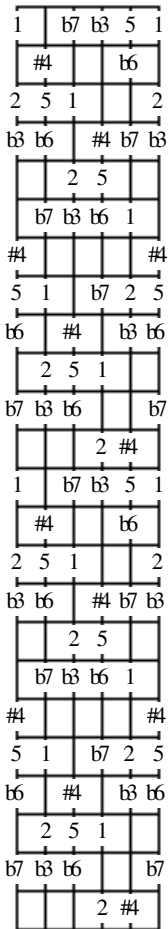


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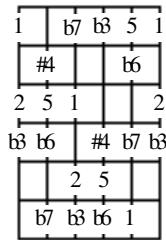
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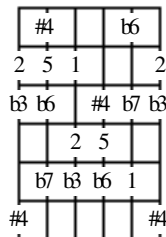
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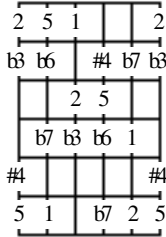
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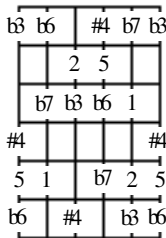
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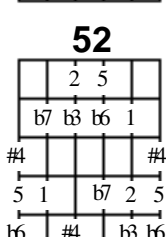
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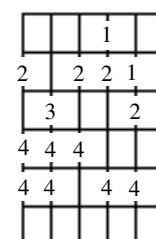
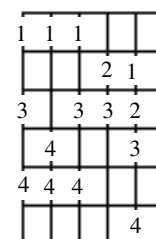
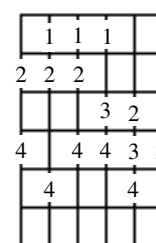
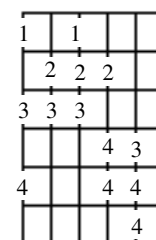
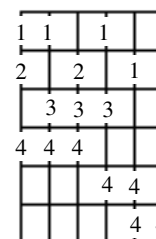
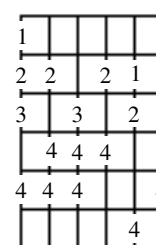
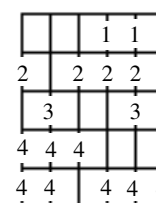
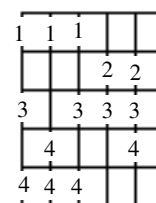
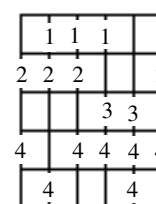
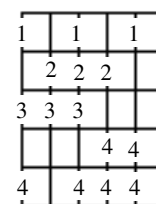
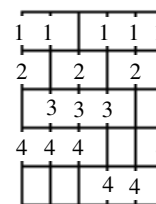
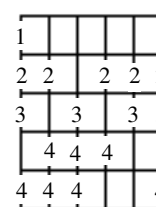
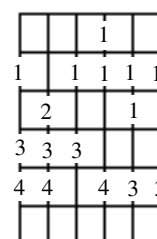
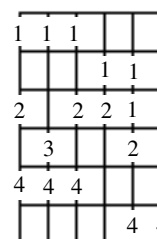
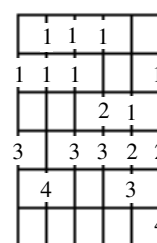
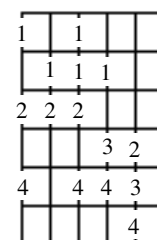
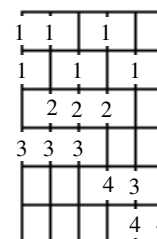
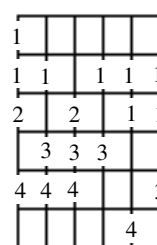
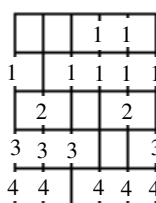
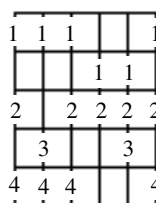
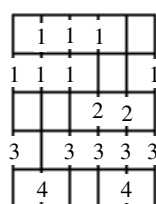
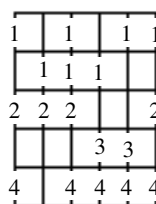
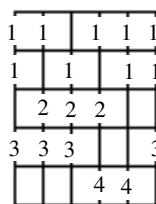
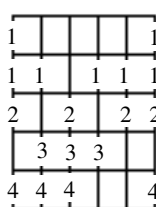
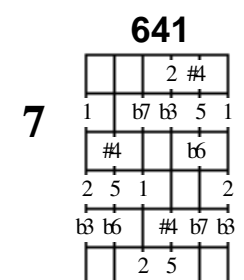
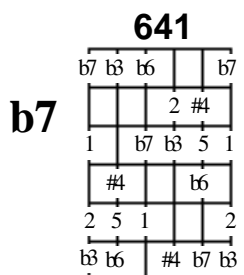
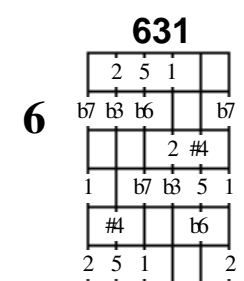
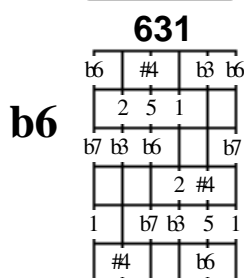
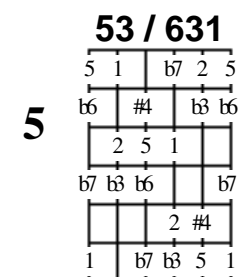
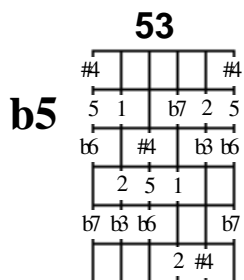
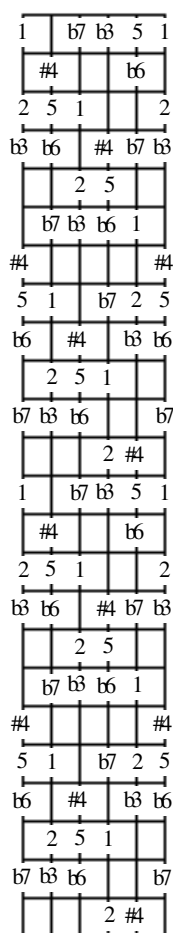
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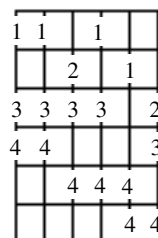
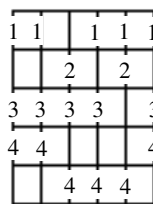
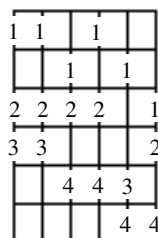
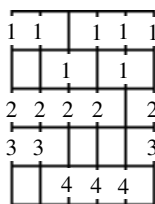
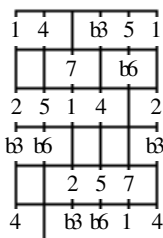
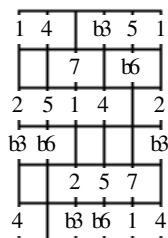




harmonic minor scale

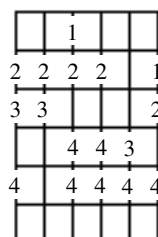
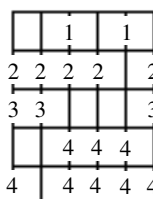
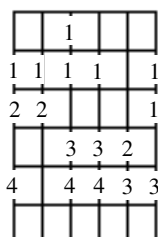
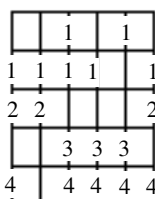
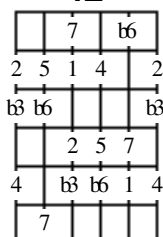
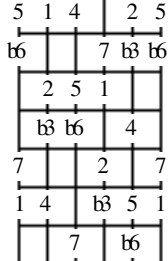
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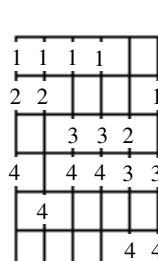
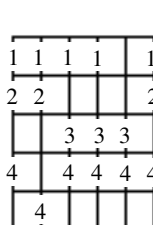
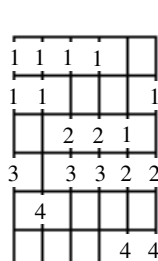
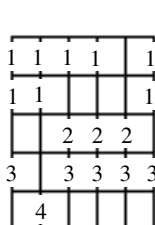
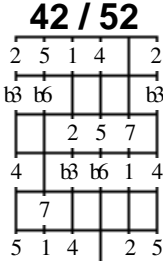
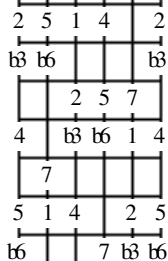
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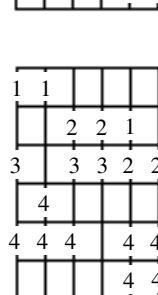
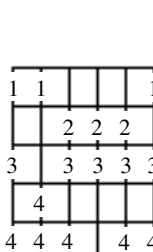
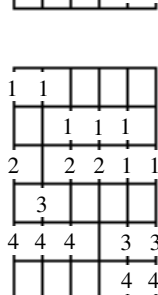
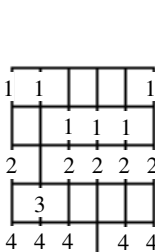
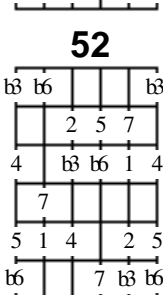
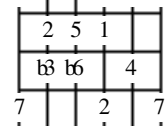
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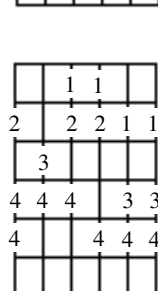
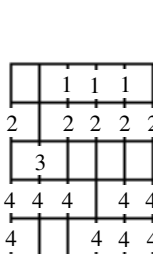
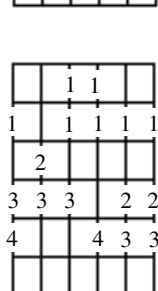
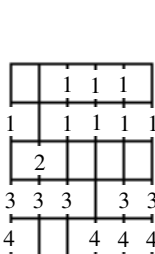
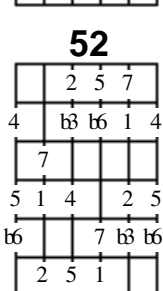
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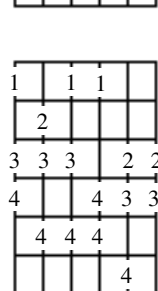
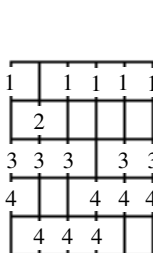
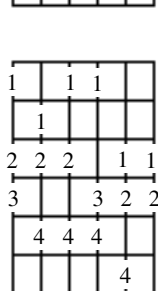
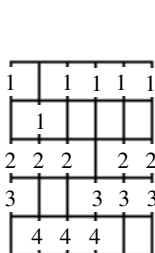
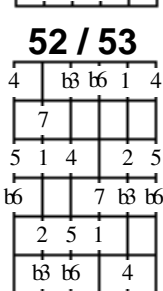
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Phrygian mode (major b2b3b6b7, Aeolian b2)

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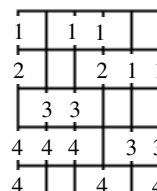
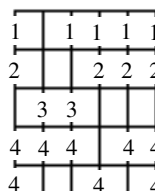
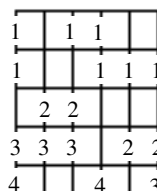
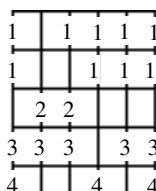
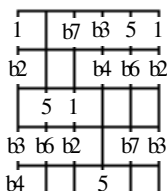
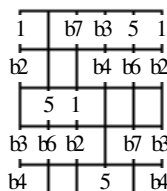
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Phrygian b4 scale (7/b6 b9#9)

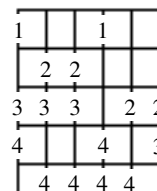
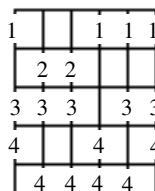
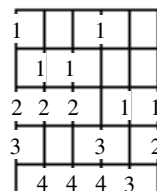
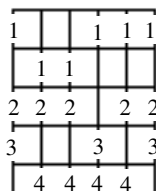
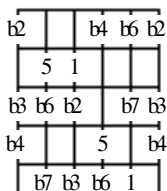
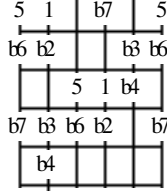
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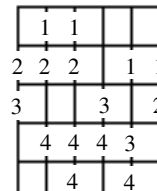
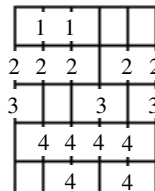
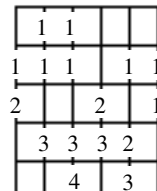
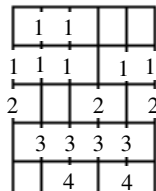
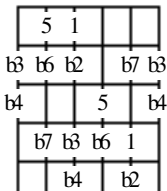
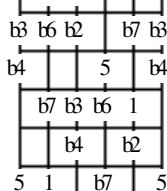
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b2



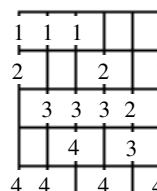
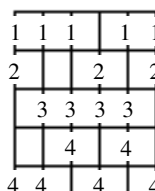
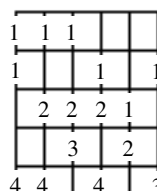
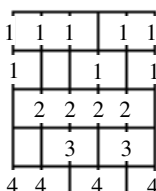
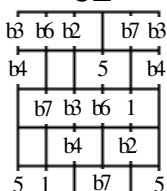
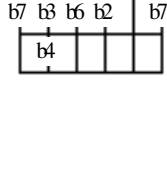
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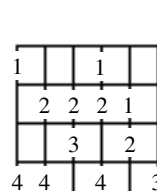
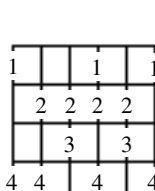
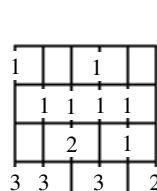
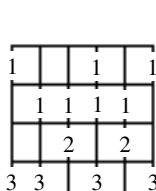
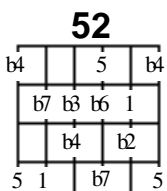
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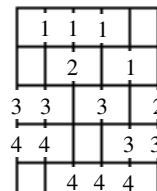
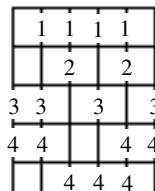
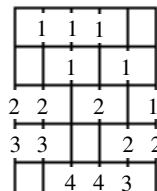
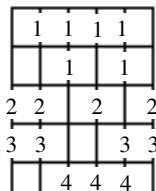
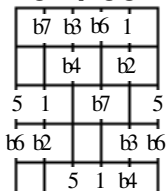
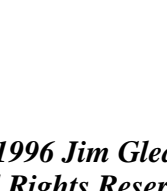
52

3



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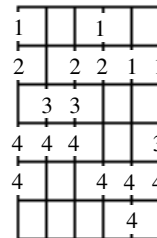
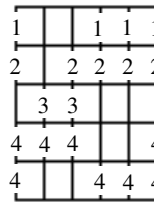
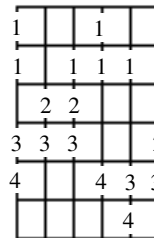
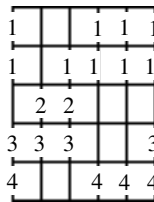
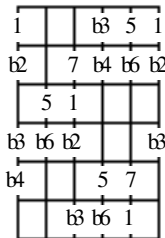
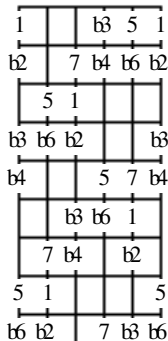
4



Phrygian b4, natural 7 scale

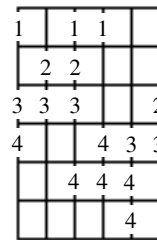
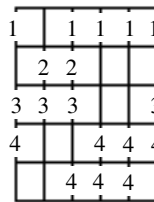
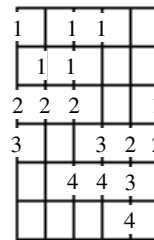
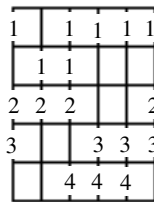
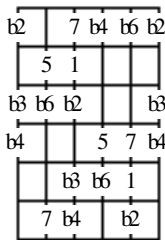
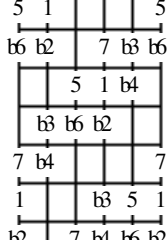
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1



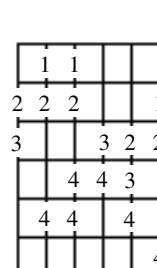
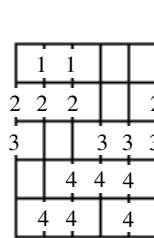
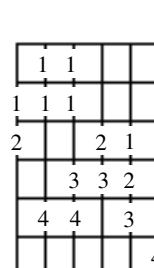
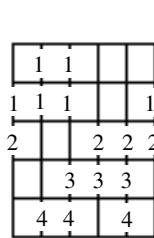
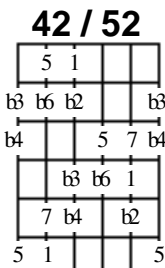
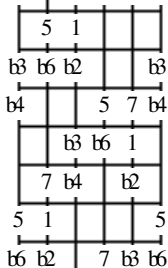
42

b2



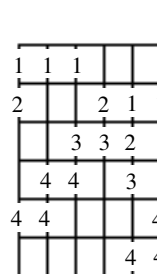
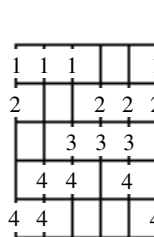
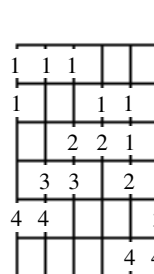
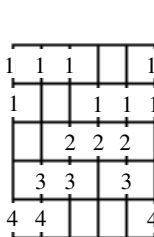
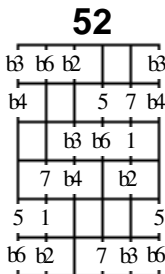
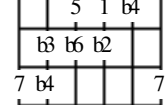
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2



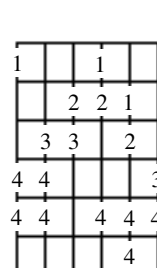
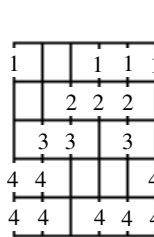
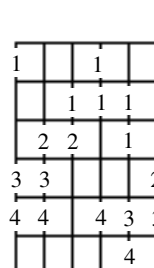
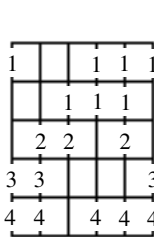
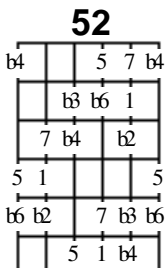
52

b3



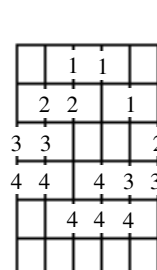
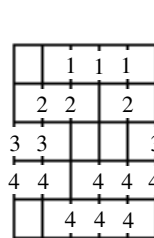
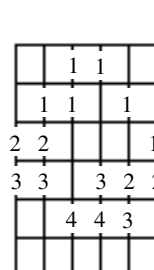
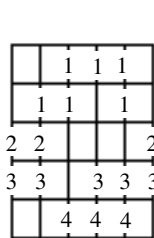
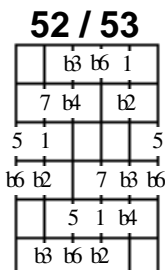
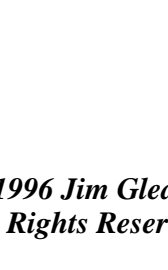
52

3



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4



53

b5

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5

631

b6

631

6

641

b7

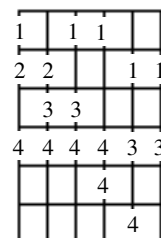
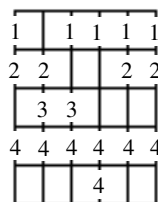
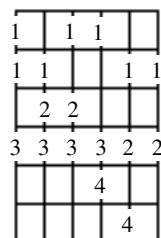
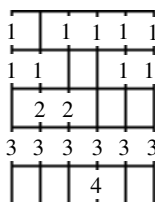
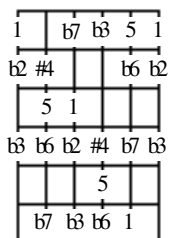
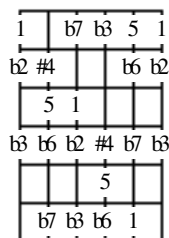
641

7

Phrygian #4 scale

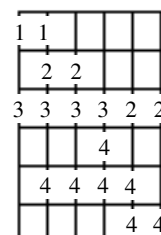
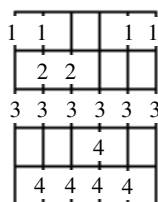
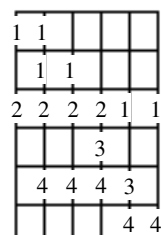
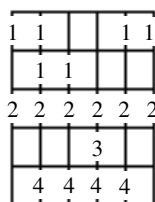
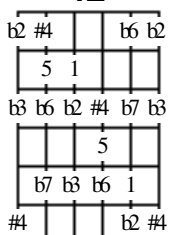
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1



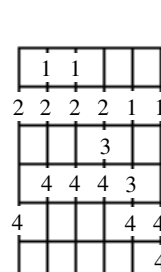
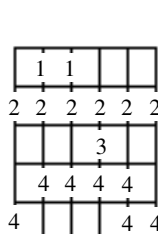
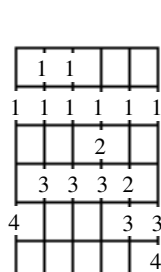
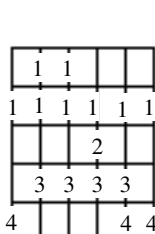
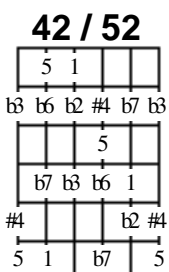
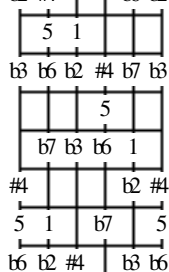
42

b2



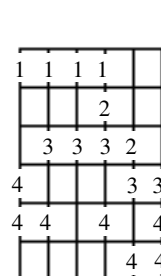
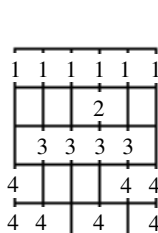
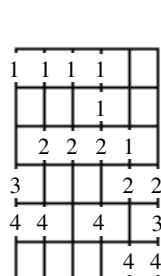
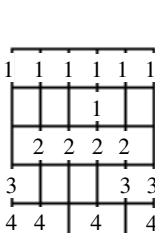
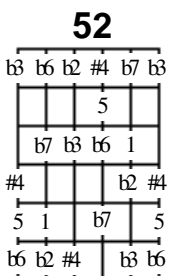
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2



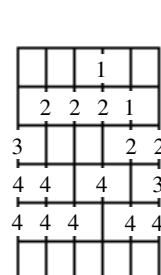
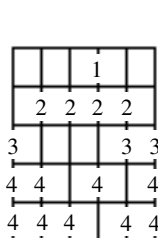
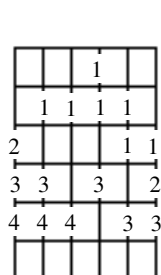
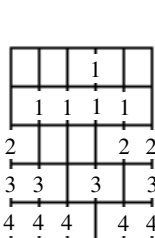
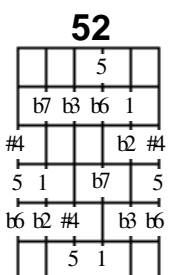
52

b3



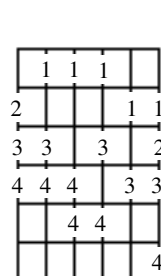
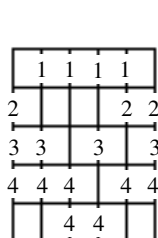
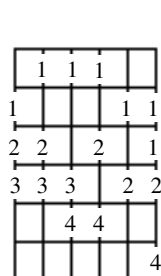
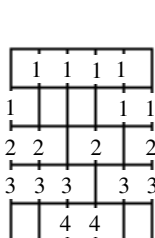
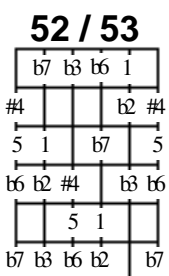
52

3



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4



53

b5

53 / 631

5

631

b6

631

6

641

b7

641

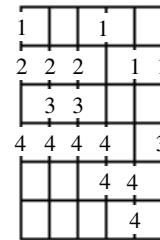
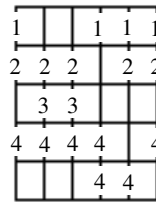
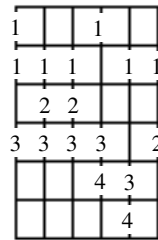
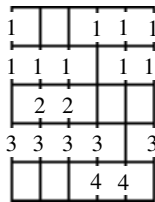
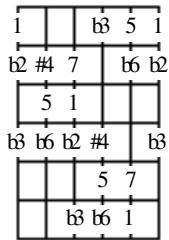
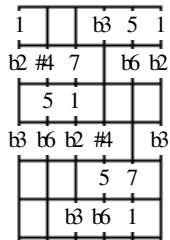
7

The diagrams are organized into rows and columns. Each diagram is a 5-string fretboard with notes and fingerings. The diagrams are numbered 1 through 53. The diagrams are organized by fret number (5, 6, 7) and voicing (b5, b6, b7). The diagrams are numbered 1 through 53. The diagrams are organized by fret number (5, 6, 7) and voicing (b5, b6, b7). The diagrams are numbered 1 through 53.

Phrygian #4, natural 7 scale

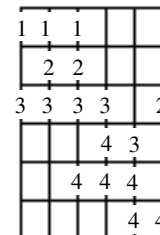
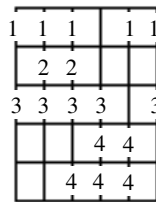
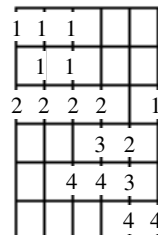
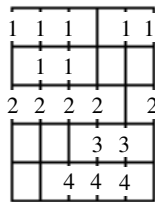
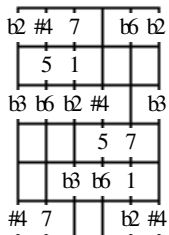
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1



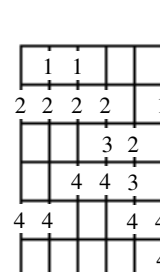
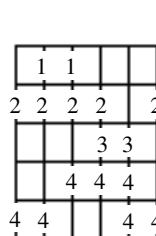
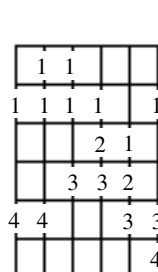
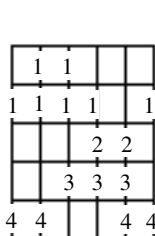
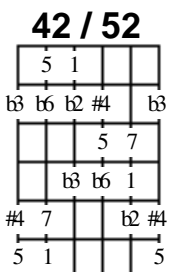
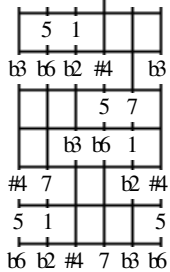
42

b2



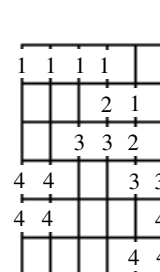
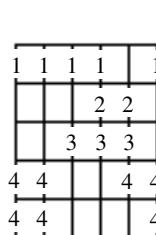
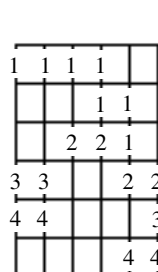
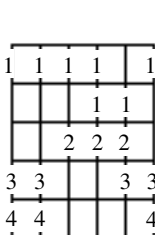
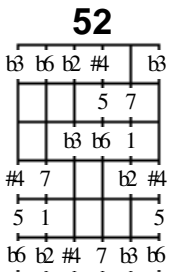
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2



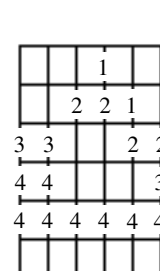
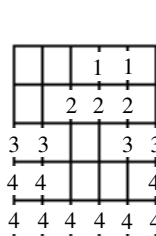
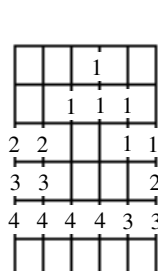
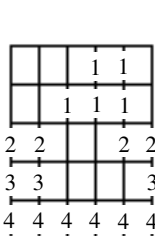
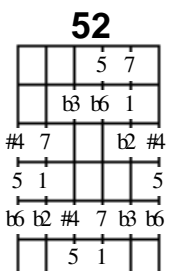
52

b3



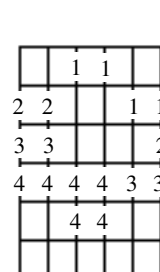
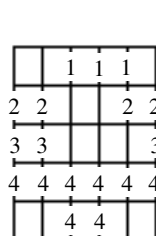
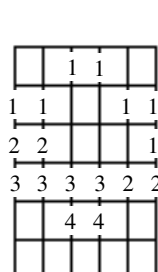
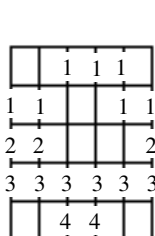
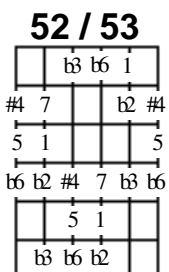
52

3



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4



53

b5

53 / 631

5

631

b6

631

6

641

b7

641

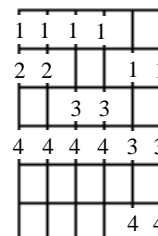
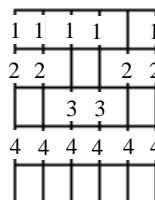
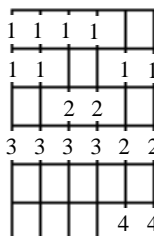
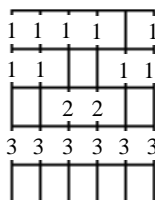
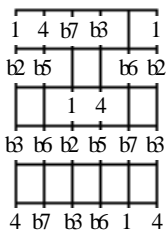
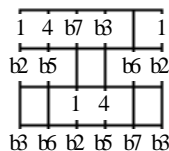
7

Each grid is a 4x4 matrix. The first column contains the temperament names: **b5**, **5**, **b6**, **b7**. The second column contains the numbers: **53**, **53 / 631**, **631**, **641**. The remaining columns show various temperament patterns, each represented by a 4x4 grid of numbers and accidentals.

Locrian scale

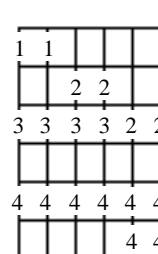
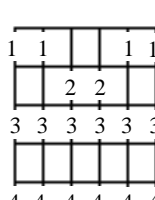
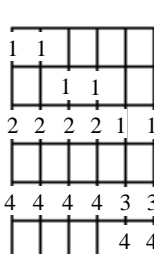
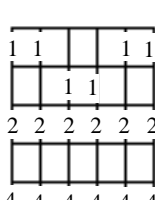
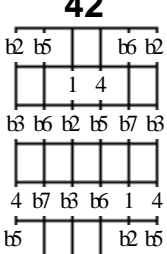
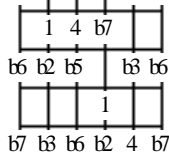
641 / 42

1



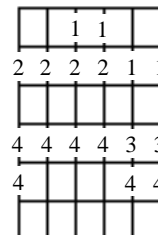
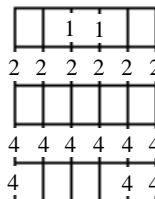
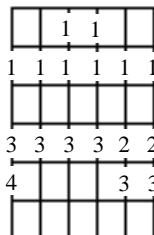
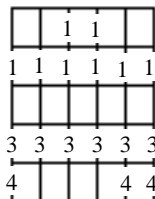
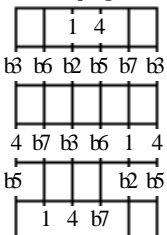
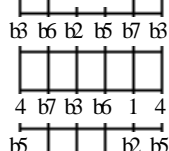
42

b2



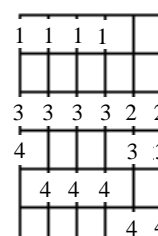
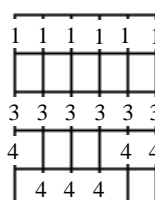
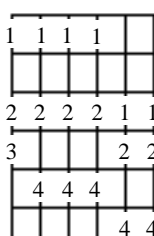
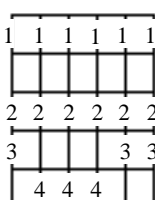
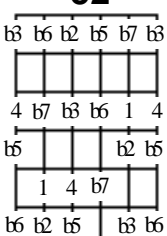
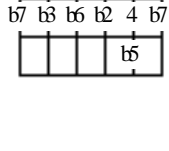
42 / 52

2



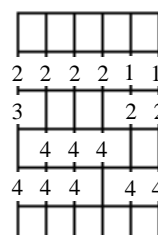
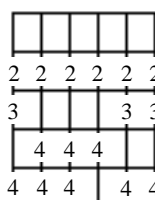
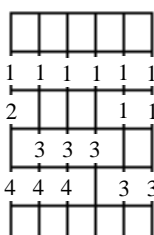
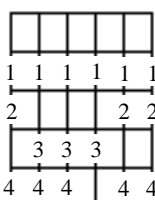
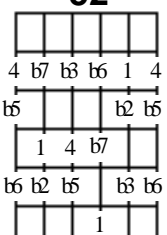
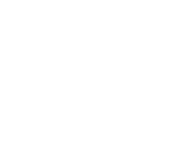
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b3



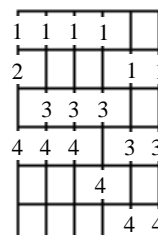
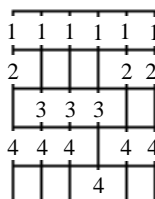
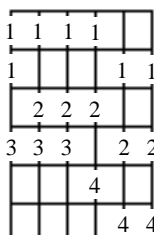
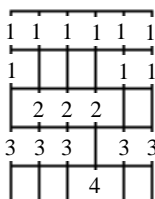
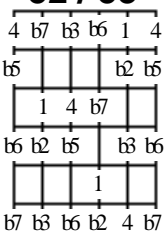
52

3



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4



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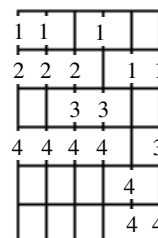
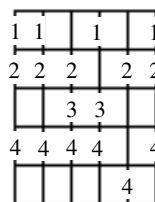
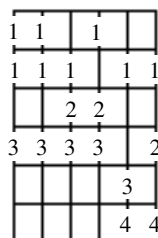
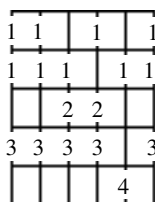
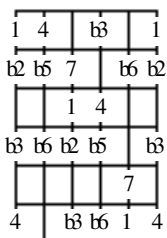
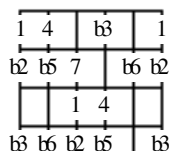
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Locrian natural 7 scale

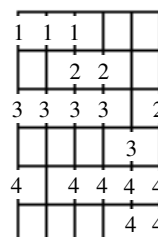
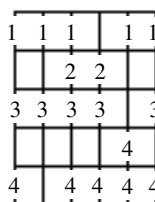
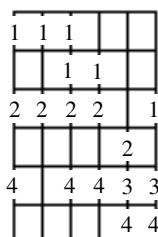
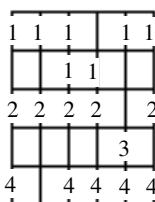
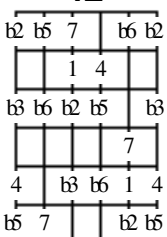
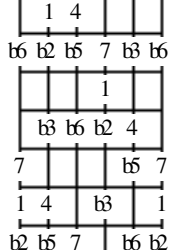
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1



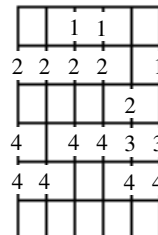
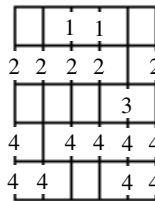
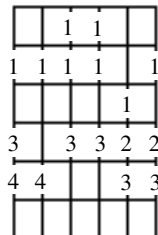
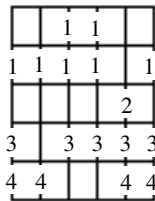
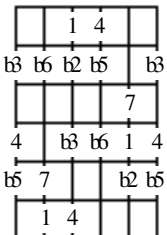
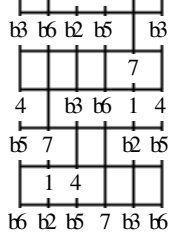
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b2



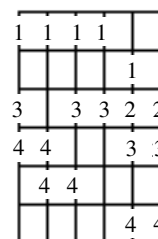
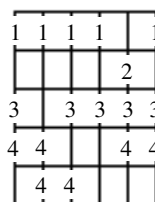
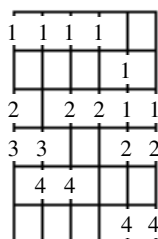
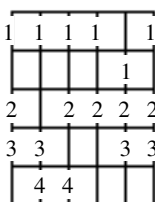
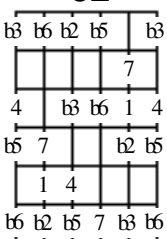
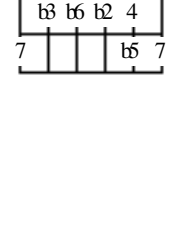
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2



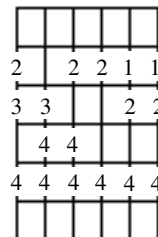
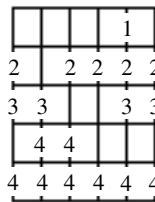
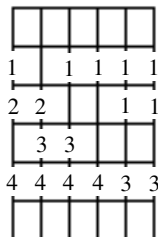
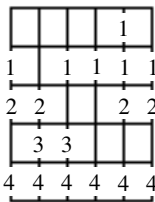
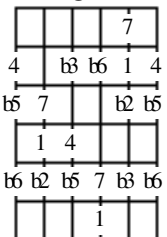
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b3



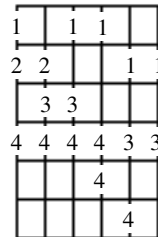
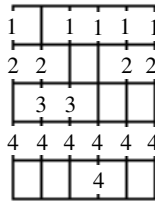
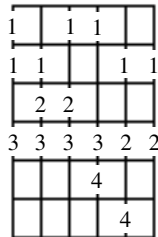
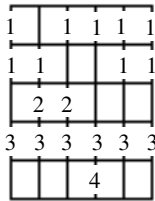
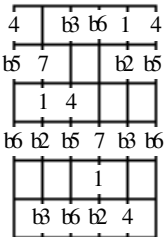
52

3



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4



Locrian nat.2, nat. 6 scale (Dorian b5, har. maj. II)

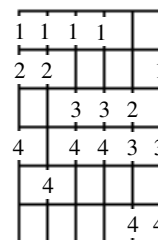
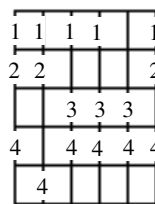
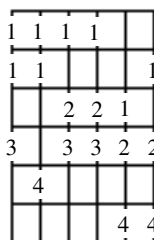
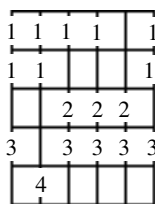
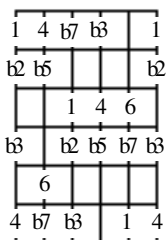
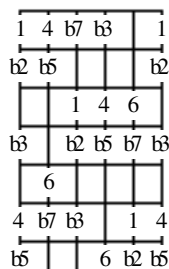
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<p>1 4 b7 b3 1</p> <p>b5</p> <p>2 1 4 6 2</p> <p>b3 b5 b7 b3</p> <p>6 2</p> <p>4 b7 b3 1 4</p> <p>b5 6 b5</p> <p>1 4 b7 2</p> <p>b5 b3</p> <p>6 2 1 6</p> <p>b7 b3 4 b7</p> <p>6 2 b5</p> <p>1 4 b7 b3 1</p> <p>b5</p> <p>2 1 4 6 2</p> <p>b3 b5 b7 b3</p> <p>6 2</p> <p>4 b7 b3 1 4</p> <p>b5 6 b5</p> <p>1 4 b7 2</p> <p>b5 b3</p> <p>6 2 1 6</p> <p>b7 b3 4 b7</p> <p>6 2 b5</p>	<p>53</p> <p>b5 6 b5</p> <p>1 4 b7 2</p> <p>b5 b3</p> <p>6 2 1 6</p> <p>b7 b3 4 b7</p> <p>6 2 b5</p>	<p>1 1 1 1</p> <p>1 1 1 1</p> <p>2 2</p> <p>3 3 3 3</p> <p>4 4 4 4</p>	<p>1 1 1 1</p> <p>1 1 1 1</p> <p>2 1</p> <p>3 3 3 2</p> <p>4 4 3 3</p> <p>4</p>	<p>1 1 1 1</p> <p>2 2 2 2</p> <p>3 3</p> <p>4 4 4 4</p> <p>4 4 4 4</p>	<p>1 1 1 1</p> <p>2 2 2 1</p> <p>3 2</p> <p>4 4 4 3</p> <p>4 4 4 4</p> <p>4</p>
b5	<p>53 / 631</p> <p>1 4 b7 2</p> <p>b5 b3</p> <p>6 2 1 6</p> <p>b7 b3 4 b7</p> <p>6 2 b5</p> <p>1 4 b7 b3 1</p>	<p>1 1 1 1</p> <p>1 1</p> <p>2 2 2 2</p> <p>3 3 3 3</p> <p>4 4 4</p>	<p>1 1 1 1</p> <p>1 1</p> <p>2 2 2 1</p> <p>3 3 2 2</p> <p>4 4 3</p> <p>4</p>	<p>1 1 1 1</p> <p>2 2</p> <p>3 3 3 3</p> <p>4 4 4 4</p> <p>4 4 4</p>	<p>1 1 1 1</p> <p>2 1</p> <p>3 3 3 2</p> <p>4 4 3 3</p> <p>4 4 4</p> <p>4</p>
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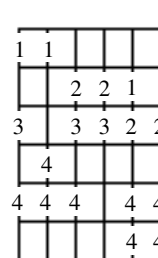
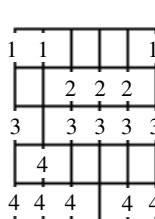
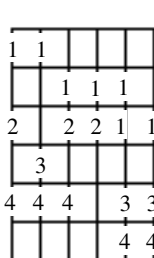
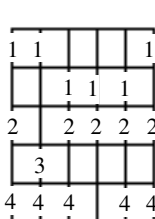
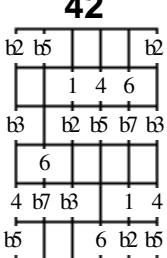
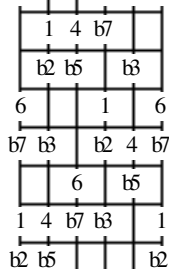
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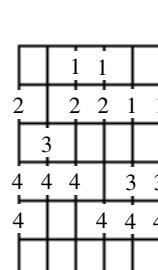
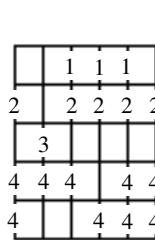
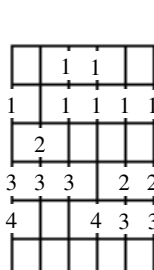
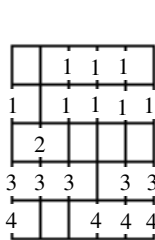
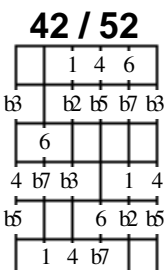
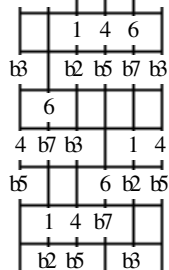
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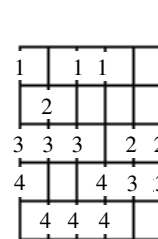
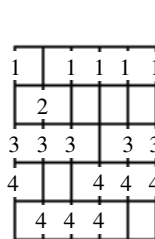
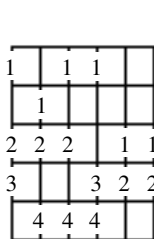
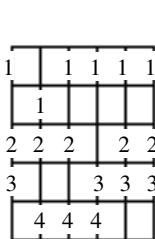
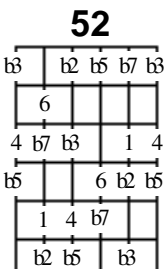
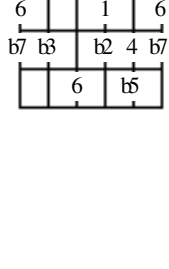
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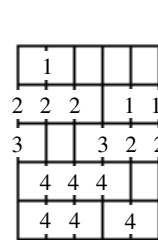
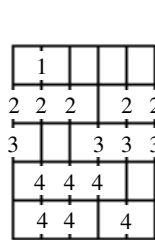
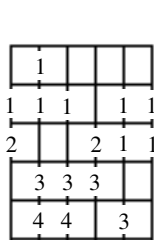
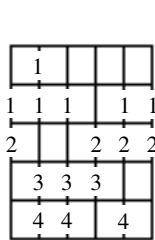
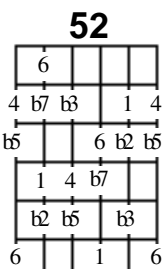
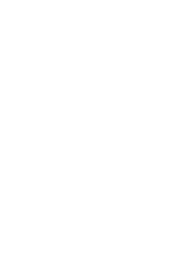
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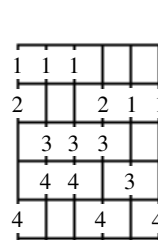
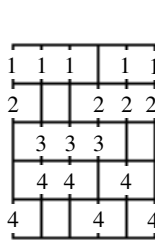
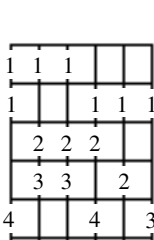
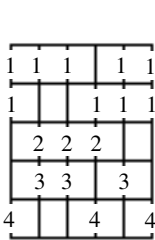
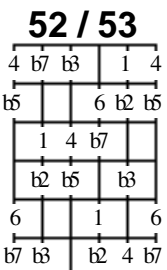
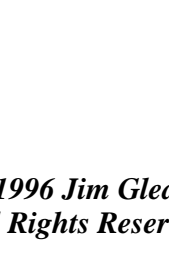
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3	3			2																																																																																																																																																																																																																																																																																																																																																						
	4	4	3																																																																																																																																																																																																																																																																																																																																																							
4	4	4	4	4																																																																																																																																																																																																																																																																																																																																																						

Locrian nat.6, nat. 7 scale

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1

1	4	b3	1
b2	b5	7	b2
	1	4	6
b3	b2	b5	b3
6		7	
4	b3	1	4
b5	7	6	b2

1	4	b3	1
b2	b5	7	b2
	1	4	6
b3	b2	b5	b3
6		7	
4	b3	1	4

1	1	1	1
1	1	1	1
	2	2	2
3	3	3	3
4		4	

1	1	1	
1	1	1	1
	2	2	1
3	3	3	2
4		3	
		4	4

1	1	1	1
2	2	2	2
	3	3	3
4	4	4	4
4		4	

1	1	1	
2	2	2	1
	3	3	2
4	4	4	3
4		4	
		4	4

42

b2

1	4		
b2	b5	7	b3
6		1	6
b3	b2	4	
7	6	b5	7
1	4	b3	1
b2	b5	7	b2

b2	b5	7	b2
	1	4	6
b3	b2	b5	b3
6		7	
4	b3	1	4
b5	7	6	b2

1	1	1	1
	1	1	1
2	2	2	2
3		3	
4	4	4	4

1	1	1	
	1	1	1
2	2	2	1
3		2	
4	4	3	3
		4	4

1	1	1	1
	2	2	2
3	3	3	3
4		4	
4	4	4	4

1	1	1	
	2	2	1
3	3	3	2
4		3	
4	4	4	4
		4	4

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2

	1	4	6
b3	b2	b5	b3
6		7	
4	b3	1	4
b5	7	6	b2
	1	4	
b2	b5	7	b3

	1	4	6
b3	b2	b5	b3
6		7	
4	b3	1	4
b5	7	6	b2
	1	4	

	1	1	1
1	1	1	1
	2		2
3	3	3	3
4	4	4	4

	1	1	
1	1	1	1
	2		1
3	3	2	2
4	4	4	3
			3

	1	1	1
2	2	2	2
	3		3
4	4	4	4
4	4	4	4

	1	1	
2	2	2	1
	3		2
4	4	3	3
4	4	4	4
			4

52

b3

b3	b2	b5	b3
6		7	
4	b3	1	4
b5	7	6	b2
	1	4	
b2	b5	7	b3

b3	b2	b5	b3
6		7	
4	b3	1	4
b5	7	6	b2
	1	4	
b2	b5	7	b3

1	1	1	1
	1		1
2	2	2	2
3	3	3	3
4	4		

1	1	1	
	1		1
2	2	1	1
3	3	3	2
4	4		
		4	

1	1	1	1
	2		2
3	3	3	3
4	4	4	4
4	4		

1	1	1	
	2		1
3	3	2	2
4	4	4	3
4	4		
		4	

52

3

	6		7
4	b3	1	4
b5	7	6	b2
	1	4	
b2	b5	7	b3
6		1	6

	6		7
4	b3	1	4
b5	7	6	b2
	1	4	
b2	b5	7	b3
6		1	6

	1		1
1	1	1	1
	2	2	2
3	3		
4	4	4	4

	1		
1	1	1	1
	2	2	1
3	3		
4	4	4	3
			4

	1		1
2	2	2	2
	3	3	3
4	4		
4	4	4	4

	1		
2	2	1	1
	3	3	2
4	4		
4	4	4	4
			4

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4

4	b3	1	4
b5	7	6	b2
	1	4	
b2	b5	7	b3
6		1	6
b3	b2	4	

	1	1	1
1	1	1	1
	2	2	
3	3	3	3
4		4	4

	1		
1	1	1	1
	2	2	
3	3	3	2
4		4	3
			4

	1	1	1
2	2	2	2
	3	3	
4	4	4	4
4		4	4

	1		
2	2	2	1
	3	3	
4	4	4	3
4		4	4
			4

	1		
2	2	2	1
	3	3	
4	4	4	3
4		4	4
			4

<p>1 4 b3 1 b2 b5 7 b2 1 4 6 b3 b2 b5 b3 6 7 4 b3 1 4 b5 7 6 b2 b5 1 4 b2 b5 7 b3 6 1 6 b3 b2 4 7 6 b5 7 1 4 b3 1 b2 b5 7 b2 1 4 6 b3 b2 b5 b3 6 7 4 b3 1 4 b5 7 6 b2 b5 1 4 b2 b5 7 b3 6 1 6 b3 b2 4 7 6 b5 7</p>	<p>53</p> <p>b5</p> <p>b5 7 6 b2 b5 1 4 b2 b5 7 b3 6 1 6 b3 b2 4 7 6 b5 7</p>	<p>1 1 1 1 1 1 1 2 2 2 2 3 3 3 4 4 4</p>	<p>1 1 1 1 1 2 2 2 1 3 3 2 4 4 3 4 4</p>	<p>1 1 1 1 1 2 2 3 3 3 3 4 4 4 4 4 4</p>	<p>1 1 1 2 2 3 3 3 2 4 4 3 4 4 4 4 4</p>
	<p>53 / 631</p> <p>5</p> <p>1 4 b2 b5 7 b3 6 1 6 b3 b2 4 7 6 b5 7 1 4 b3 1</p>	<p>1 1 1 1 1 1 2 2 2 3 3 3 4 4 4 4</p>	<p>1 1 1 1 1 1 2 2 2 1 3 3 2 4 4 3 3 4 4</p>	<p>1 1 2 2 2 2 3 3 3 4 4 4 4 4 4 4</p>	<p>1 1 2 2 2 1 3 3 2 4 4 3 4 4 4 4 4 4</p>
	<p>631</p> <p>b6</p> <p>b2 b5 7 b3 6 1 6 b3 b2 4 7 6 b5 7 1 4 b3 1 b2 b5 7 b2</p>	<p>1 1 1 1 1 1 1 1 2 2 2 3 3 3 3 4 4 4 4</p>	<p>1 1 1 1 1 1 2 2 1 3 3 2 2 4 4 4 3 4 4</p>	<p>1 1 1 1 2 2 2 3 3 3 4 4 4 4 4 4 4 4</p>	<p>1 1 1 2 2 1 3 3 2 4 4 3 3 4 4 4 4 4 4</p>
	<p>631</p> <p>6</p> <p>6 1 6 b3 b2 4 7 6 b5 7 1 4 b3 1 b2 b5 7 b2 1 4 6</p>	<p>1 1 1 1 1 1 2 2 2 2 3 3 3 3 4 4 4 4</p>	<p>1 1 1 1 1 1 2 2 1 1 3 3 3 2 4 4 4 3 4 4</p>	<p>1 1 1 1 2 2 2 3 3 3 3 4 4 4 4 4 4 4 4</p>	<p>1 1 1 2 2 1 3 3 2 2 4 4 4 3 4 4 4 4 4 4</p>
	<p>641</p> <p>b7</p> <p>b3 b2 4 7 6 b5 7 1 4 b3 1 b2 b5 7 b2 1 4 6 b3 b2 b5 b3</p>	<p>1 1 1 1 1 1 1 2 2 2 2 3 3 3 3 4 4 4 4</p>	<p>1 1 1 1 1 1 1 2 2 2 1 3 3 3 2 4 4 3 4 4</p>	<p>1 1 1 2 2 2 2 3 3 3 3 4 4 4 4 4 4 4 4</p>	<p>1 1 1 2 2 1 1 3 3 3 2 4 4 4 3 4 4 4 4 4 4</p>
	<p>641</p> <p>7</p> <p>7 6 b5 7 1 4 b3 1 b2 b5 7 b2 1 4 6 b3 b2 b5 b3 6 7</p>	<p>1 1 1 1 1 1 1 1 2 2 2 2 3 3 3 3 4 4 4 4</p>	<p>1 1 1 1 1 1 1 2 2 2 1 3 3 2 4 4 3 4 4</p>	<p>1 1 1 1 2 2 2 2 3 3 3 3 4 4 4 4 4 4 4 4</p>	<p>1 1 1 2 2 2 1 3 3 3 2 4 4 3 4 4 4 4 4 4</p>

Locrian bb7 scale

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1	4		b3		1
b2	b5			b6	b2
		1	4	6	
b3	b6	b2	b5		b3
	6				
4		b3	b6	1	4
b5			6	b2	b5
	1	4			
b6	b2	b5		b3	b6
6			1		6
b3	b6	b2	4		
		6	b5		
1	4		b3		1
b2	b5			b6	b2
		1	4	6	
b3	b6	b2	b5		b3
	6				
4		b3	b6	1	4
b5			6	b2	b5
	1	4			
b6	b2	b5		b3	b6
6			1		6
b3	b6	b2	4		
		6	b5		

1

1	4	b3	1
b2	b5		b6
	1	4	6
b3	b6	b2	b5
	6		
4	b3	b6	1

1	1		1		1
1	1			1	1
		2	2	2	
3	3	3	3		3
	4				

1	1		1		
1	1			1	1
		2	2	1	
3	3	3	3		2
	4				
				4	4

1	1		1		1
2	2			2	2
		3	3	3	
4	4	4	4		4
	4				

1	1		1	
2	2			1
		3	3	2
4	4	4	4	
	4			
				4

42

A 4x4 grid with numbers 1-6 and letters b2-b6 at the intersections. The grid is as follows:

b2	b5			b6	b2
		1	4	6	
b3	b6	b2	b5		b3
	6				
4		b3	b6	1	4
b5			6	b2	b5

1	1			
		1	1	1
2	2	2	2	1
	3			
4		4	4	3
			4	4

1	1			1	1
		2	2	2	
3	3	3	3		3
	4				
4		4	4	4	4

1	1			
		2	2	1
3	3	3	3	2
	4			
4		4	4	4
				4

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	1	4	6	
b3	b6	b2	b5	b3
	6			
4		b3	b6	1 4
b5			6	b2 b5
	1 4			

		1	1		
1	1	1	1		1
	2				
3		3	3	2	2
4			4	3	3

	1	1	1	
2	2	2	2	2
	3			
4		4	4	4
4			4	4

		1	1	
2	2	2	2	
	3			
4		4	4	3
4			4	4

52

A 6x6 grid with numbers and letters in the corners. The numbers are: Row 1: 6, 4; Row 2: 4, 6; Row 3: 1, 4; Row 4: 6, 1; Row 5: 4, 6; Row 6: 1, 4. The letters are: Row 1: b3, b6, b2, b5, b3; Row 2: b3, b6, b2, b5, b3; Row 3: b3, b6, b2, b5, b3; Row 4: b3, b6, b2, b5, b3; Row 5: b3, b6, b2, b5, b3; Row 6: b3, b6, b2, b5, b3.

1	1	1	1		1
	1				
2		2	2	2	2
3			3	3	3
	4	4			

1	1	1	1		
	1				
2		2	2	1	1
3			3	2	2
	4	4			
				4	4

1	1	1	1	1
2				
3		3	3	3
4			4	4
	4	4		

1	1	1	1		
	2				
3		3	3	2	2
4			4	3	3
	4	4			
				4	4

52

6				
4	b3	b6	1	4
b5		6	b2	b5
1	4			
b6	b2	b5	b3	b6
6		1		6

	1				
1		1	1	1	1
2			2	1	1
	3	3			
4	4	4		3	3
					4

1				
2		2	2	2
3			3	3
	4	4		
4	4	4		4

1				
2	2	2	1	1
3			3	2
4	4			
4	4	4	4	4
				4

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4		b3	b6	1	4
b5			6	b2	b5
	1	4			
b6	b2	b5		b3	b6
6			1		6
	b3	b6	b2	4	

1		1	1		
1			1	1	1
	2	2			
3	3	3		2	2
4			4		3
				4	

1		1	1	1
2			2	2
	3	3		
4	4	4		4
4			4	

1		1	1	
2			2	1
	3	3		
4	4	4		3
4			4	
				4

4

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Locrian natural 2, b4 scale

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1

1	b7	b3	1
b5	b4	b6	
2	1		2
b3	b6	b5	b7
b4	2		b4
b7	b3	b6	1
b5	b4		b5

1	b7	b3	1
b5	b4	b6	
2	1		2
b3	b6	b5	b7
b4	2		
b7	b3	b6	1

1	1	1	1
1	1	1	1
2	2		2
3	3	3	3
4	4		4

1	1	1	
1	1	1	
2	2		1
3	3	3	2
4	4		3
		4	

1	1	1	1
2	2	2	2
3	3		3
4	4	4	4
4	4		4

1	1	1	
2	2	2	1
3	3		2
4	4	4	3
4	4		4
		4	

42

b2

1	b7	2	
b6	b5	b3	b6
2	1	b4	
b7	b3	b6	
b4	2	b5	
1	b7	b3	1
b5	b4	b6	

b5	b4	b6	
2	1		2
b3	b6	b5	b7
b4	2		b4
b7	b3	b6	1
b5	b4		b5

1	1	1	
1	1		1
2	2	2	2
3	3		3
4	4	4	4

1	1		
1	1		1
2	2	2	1
3	3		2
4	4	4	3
			4

1	1	1	1
2	2		2
3	3	3	3
4	4		4
4	4	4	4

1	1		
2	2		1
3	3	3	2
4	4		3
4	4	4	4
			4

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2

2	1		2
b3	b6	b5	b7
b4	2		b4
b7	b3	b6	1
b5	b4		b5
1	b7	2	
b6	b5	b3	b6

2	1		2
b3	b6	b5	b7
b4	2		b4
b7	b3	b6	1
b5	b4		b5
1	b7	2	

1	1		1
1	1	1	1
2	2		2
3	3	3	3
4	4		4

1	1		
1	1	1	1
2	2		1
3	3	3	2
4	4		3
			4

1	1		1
2	2	2	2
3	3		3
4	4	4	4
4	4		4

1	1		
2	2	2	1
3	3		2
4	4	4	3
4	4		4
			4

52

b3

1	b7	2	
b6	b5	b3	b6
2	1	b4	
b7	b3	b6	
b4	2	b5	

b3	b6	b5	b7
b4	2		b4
b7	b3	b6	1
b5	b4		b5
1	b7	2	
b6	b5	b3	b6

1	1	1	1
1	1		1
2	2	2	2
3	3		3
4	4	4	4

1	1	1	
1	1		1
2	2	2	1
3	3		2
4	4	4	3
			4

1	1	1	1
2	2		2
3	3	3	3
4	4		4
4	4	4	4

1	1	1	
2	2		1
3	3	3	2
4	4		3
4	4	4	4
			4

52

3

b4	2		b4
b7	b3	b6	1
b5	b4		b5
1	b7	2	
b6	b5	b3	b6
2	1	b4	

1	1		1
1	1	1	1
2	2		2
3	3	3	3
4	4		4

1	1		
1	1	1	1
2	2		1
3	3	3	2
4	4		3
			4

1	1		1
2	2	2	2
3	3		3
4	4	4	4
4	4		4

1	1		
2	2	2	1
3	3		2
4	4	4	3
4	4		4
			4

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4

b7	b3	b6	1
b5	b4		b5
1	b7	2	
b6	b5	b3	b6
2	1	b4	
b7	b3	b6	

1	1	1	1
1	1		1
2	2	2	2
3	3	3	3
4	4		4

1	1	1	
1	1		1
2	2	2	1
3	3	3	2
4	4		3
			4

1	1	1	1
2	2		2
3	3	3	3
4	4	4	4
4	4		4

1	1	1	
2	2		1
3	3	3	2
4	4	4	3
4	4		4
			4

Locrian nat. 2, b4, nat. 6 scale

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1

1	b7	b3	1
b5	b4		
2	1	6	2
b3		b5	b7
b4	6	2	b4
b7	b3	1	
b5	b4	6	b5
1	b7	2	
	b5	b3	
6	2	1	b4
b7	b3		b7
b4	6	2	b5
1	b7	b3	1
	b5	b4	
2	1	6	2
b3		b5	b7
b4	6	2	b4
b7	b3	1	
b5	b4	6	b5
1	b7	2	
	b5	b3	
6	2	1	b4
b7	b3		b7
b4	6	2	b5

1	b7	b3	1
b5	b4		
2	1	6	2
b3		b5	b7
b4	6	2	
b7	b3	1	

1	1	1	1
1	1		
2	2	2	2
3		3	3
4	4	4	4

1	1	1	
1	1		
2	2	1	1
3		3	2
4	4	4	3
		4	

1	1	1	1
2	2		
3	3	3	3
4		4	4
4	4	4	4

1	1	1	
2	2		
3	3	2	2
4		4	3
4	4	4	4
		4	

42

b2

b5	b4		
2	1	6	2
b3		b5	b7
b4	6	2	b4
b7	b3	1	
b5	b4	6	b5

1	1		
1	1	1	1
2		2	2
3	3	3	3
4	4	4	4

1	1		
1	1	1	1
2		2	1
3	3	3	2
4	4	4	3
			4

1	1		
2	2	2	2
3		3	3
4	4	4	4
4	4	4	

1	1		
2	2	1	1
3		3	2
4	4	4	3
4	4	4	4
			4

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2

2	1	6	2
b3		b5	b7
b4	6	2	b4
b7	b3	1	
b5	b4	6	b5
1	b7	2	

1	1	1	1
1		1	1
2	2	2	2
3	3	3	3
4	4	4	4

1	1		
1		1	1
2	2	2	1
3	3	3	2
4	4	4	3
			4

1	1	1	1
2		2	2
3	3	3	3
4	4	4	4
4	4	4	4

1	1		
2		2	1
3	3	3	2
4	4	4	3
4	4	4	4
			4

52

b3

b3		b5	b7
b4	6	2	b4
b7	b3	1	
b5	b4	6	b5
1	b7	2	
	b5	b3	

1		1	1
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4

1		1	
1	1	1	1
2	2	2	1
3	3	3	2
4	4	4	3
			4

1		1	1
2	2	2	2
3	3	3	3
4	4	4	4
4	4	4	4

1		1	
2	2	2	1
3	3	3	2
4	4	4	3
4	4	4	4
			4

52

3

b4	6	2	b4
b7	b3	1	
b5	b4	6	b5
1	b7	2	
	b5	b3	
6	2	1	b4

1	1	1	1
1	1	1	1
2	2	2	2
3		3	3
4	4	4	4

1	1	1	
1	1	1	1
2	2	2	1
3	3	3	2
4	4	4	3
			4

1	1	1	1
2	2	2	2
3	3	3	3
4		4	4
	4	4	4

1	1	1	
2	2	2	1
3	3	3	2
4	4	4	3
	4	4	4
			4

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4

b7	b3	1	
b5	b4	6	b5
1	b7	2	
	b5	b3	
6	2	1	b4
b7	b3		b7

1	1	1	
1	1	1	1
2	2	2	2
3		3	3
4	4	4	4

1	1		
1	1	1	1
2	2	2	1
3		3	2
4	4	4	3
			4

1	1	1	
2	2	2	2
3		3	3
	4	4	4
4	4	4	4

1	1		
2	2	2	1
3	3	3	2
	4	4	3
4	4	4	4
			4

53

b5

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5

631

b6

631

6

641

b7

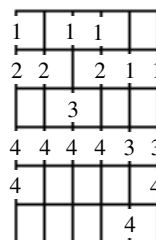
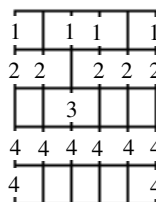
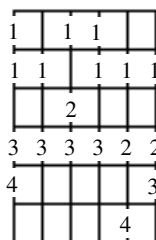
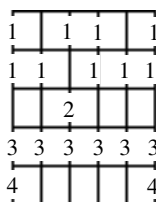
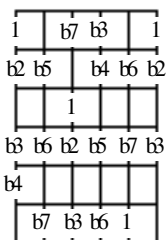
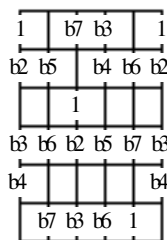
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7

Locrian b4 scale

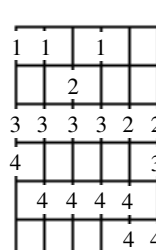
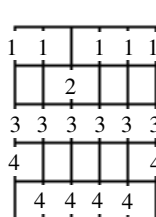
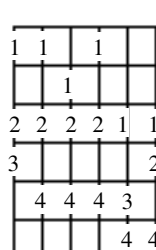
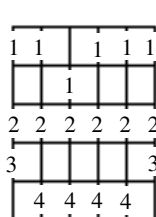
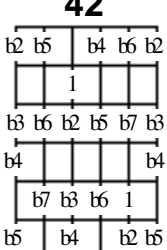
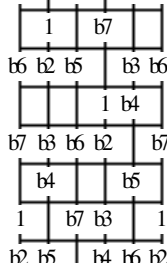
641 / 42

1



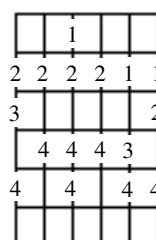
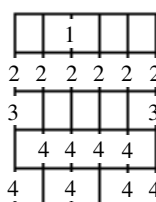
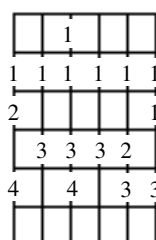
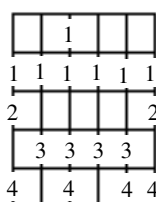
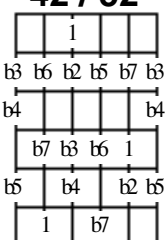
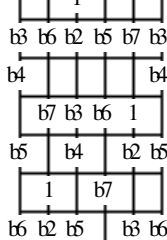
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b2



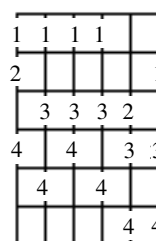
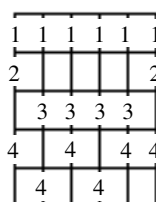
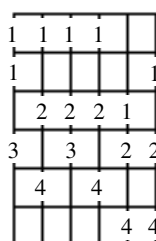
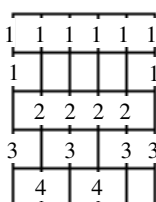
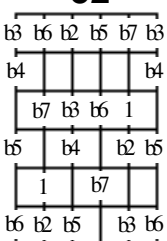
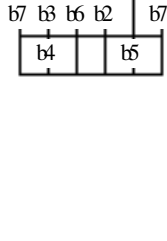
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2



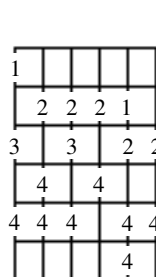
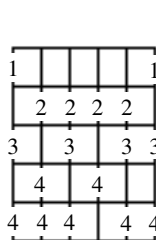
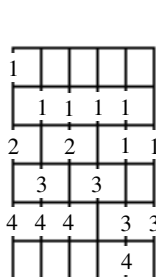
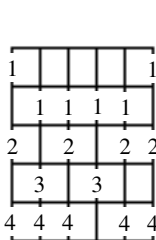
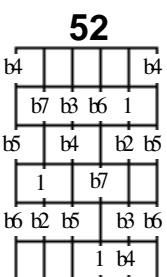
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b3



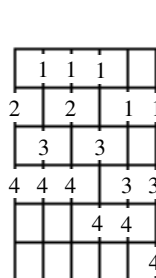
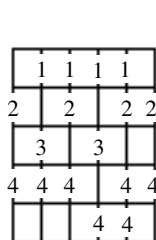
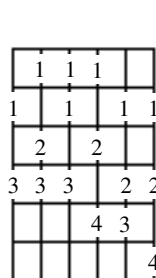
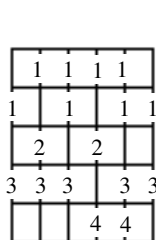
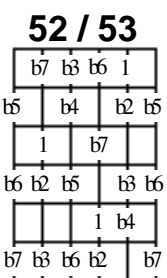
52

3



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4

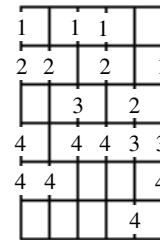
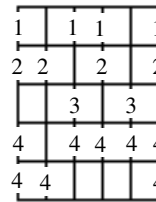
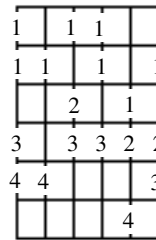
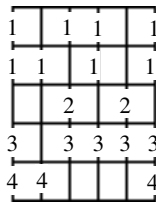
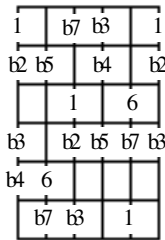
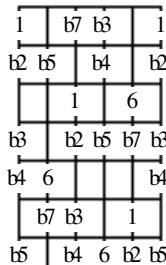


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Locrian b4, natural 6 scale

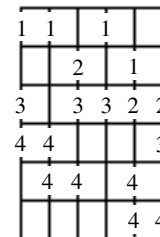
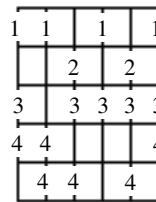
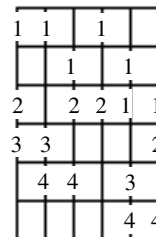
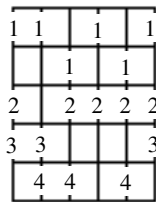
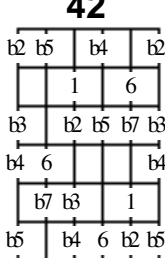
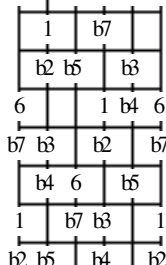
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1



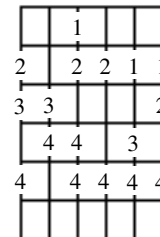
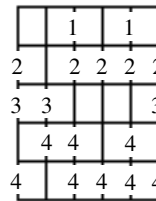
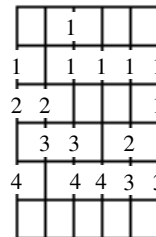
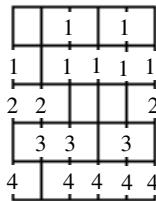
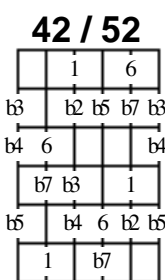
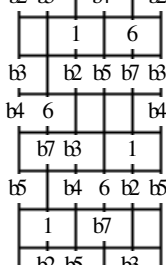
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b2



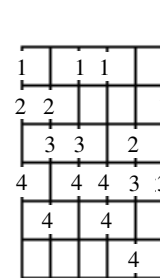
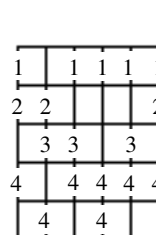
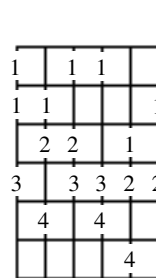
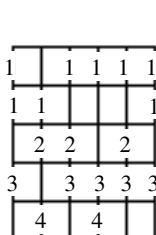
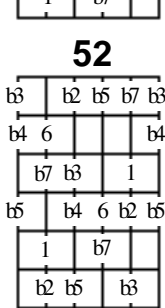
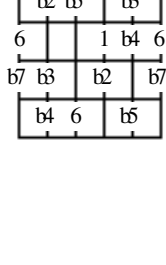
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2



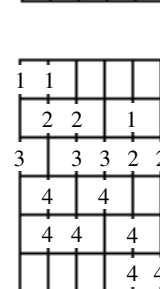
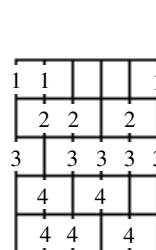
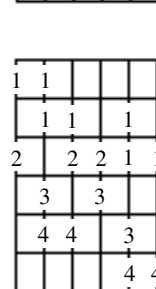
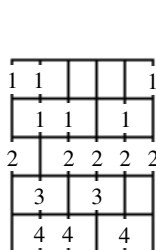
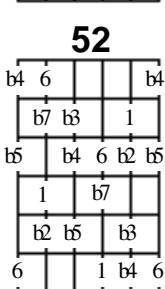
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b3



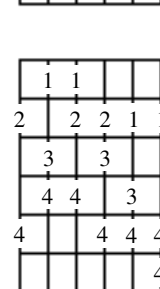
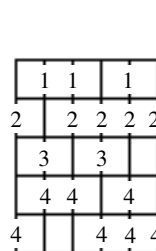
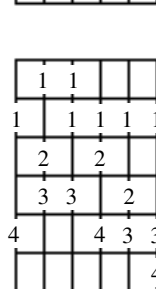
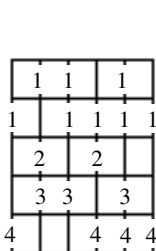
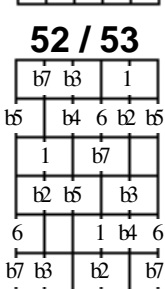
52

3



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4



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b5

1	b7	b3	1
b2	b5	b4	b2
b3	b2	b5	b7
b4	6	b4	

A 5x5 grid with numbers at intersections. The numbers are: Row 1: b5, b4, 6, b2, b5; Row 2: 1, b7; Row 3: b2, b5, b3; Row 4: 6, 1, b4, 6; Row 5: b7, b3, b2, b7. The grid is defined by 6 horizontal and 6 vertical lines.

1		1	1	1	1
	1		1		
		2	2		2
3				3	3
	4				
4		4		4	

1		1	1	
	1		1	
	2	2		1
3			3	2
4	4		4	
				4

1	1	1	1
	2		2
	3	3	3
4			4
4	4		4

1		1	1	
	2		2	
	3	3		2
4			4	3
4	4		4	
				4

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5

1	b7		
b2	b5	b3	
6		1	b4
b7	b3	b2	b7
b4	6	b5	
1	b7	b3	1
b2	b5	b4	b2

1	b7		
b2	b5		b3
6		1	b4
b7	b3	b2	b7

6		1	b4
b7	b3	b2	b7
b4	6	b5	
1	b7	b3	1

	1	1	
	1	1	1
2			2 2 2
3	3	3	
	4	4	4

	1		1	
	1	1		1
2			2	1
3	3		3	
	4	4		3

	1	1	
	2	2	2
3			3 3
4	4		4
	4	4	4

	1		1	
	2	2		1
3			3	2
4	4		4	
	4	4		4

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b6

A 3x3 grid with numbers 1-6 and lines connecting them. The grid is as follows:

b2	b5	b3
6		1
b7	b3	b2
b4	6	b5
1	b7	b3
b2	b5	b4

Lines connect the following pairs of cells:

- (1,1) to (1,2)
- (1,2) to (1,3)
- (1,1) to (2,1)
- (1,2) to (2,2)
- (1,3) to (2,3)
- (2,1) to (2,2)
- (2,2) to (2,3)
- (2,1) to (3,1)
- (2,2) to (3,2)
- (2,3) to (3,3)
- (3,1) to (3,2)
- (3,2) to (3,3)

	1	1	1	
1			1	1
2	2		2	2
	3	3	3	
4		4	4	4

	1	1		
1			1	1
2	2		2	
	3	3		2
4		4	4	

	1	1		1
2			2	2
3	3		3	
	4	4		4
4		4	4	

	1	1		
2			2	1
3	3		3	
	4	4		3
4			4	

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6

A diagram showing a 2x2 grid of squares. The top row has labels 'b7' and 'b3' above the left square, and 'b2' and 'b7' above the right square. The bottom row has labels 'b4' and '6' below the left square, and 'b5' and '6' below the right square. The grid is formed by horizontal and vertical lines.

6		1	b4	6
b7	b3		b2	b7
	b4	6		b5
1		b7	b3	1
b2	b5		b4	b2
		1		6

1		1	1	1
1	1		1	1
	2	2		2
3		3	3	3
4	4		4	4

1			1	
1	1		1	1
	2	2		1
3		3	3	
4	4		4	3
				4

1		1	1
2	2		2
	3	3	3
4		4	4
4	4		4

1		1	
2	2	2	
	3	3	2
4	4	4	
4	4	4	
			4

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b7

A diagram showing a 4x4 grid of boxes. Some boxes contain numbers (1, 6) and others contain labels (b1 through b7). The grid is as follows:

b7	b3	b2	b7
b4	6	b5	
1	b7	b3	1
b2	b5	b4	b2

The grid is part of a larger set of four similar grids arranged in a 2x2 pattern.

1	1	1	1
	1	1	1
2		2	2
3	3		3
		4	4

1	1	1	
	1	1	1
2		2	2
3	3		3
		4	3
			4

1	1	1	
	2	2	2
3		3	3
4	4		4
		4	4

1	1	1	
	2	2	1
3		3	3
4	4		4
		4	
			4

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7

	1	1	1	
1		1	1	
2	2		2	2
		3	3	
4		4	4	4

	1	1		
1		1	1	1
2	2		2	
		3		2
4		4	4	3

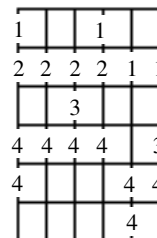
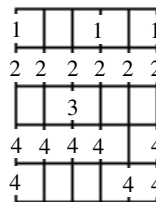
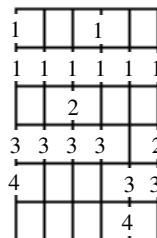
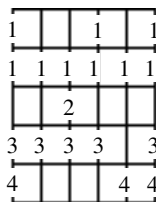
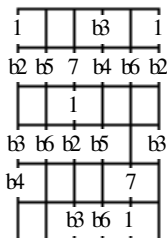
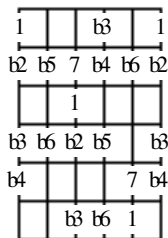
	1	1		1
2		2	2	
3	3		3	
		4		4
4		4	4	4

	1	1		
2		2	2	
3	3		3	
		4		3
4		4	4	4

Locrian b4, natural 7 scale

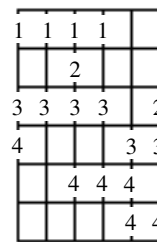
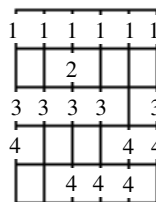
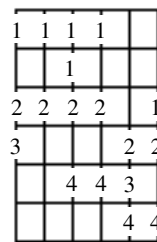
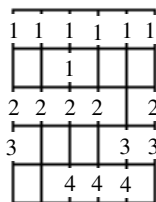
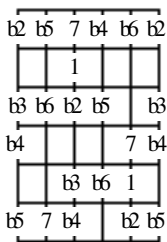
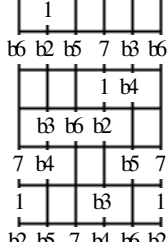
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1



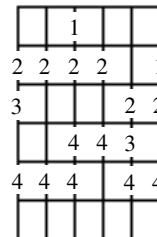
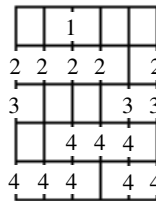
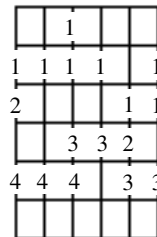
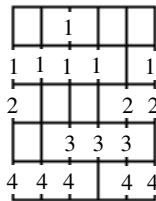
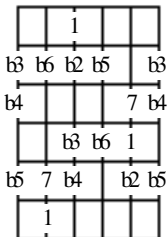
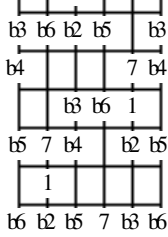
42

b2



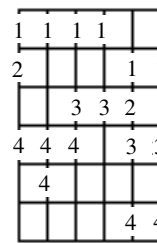
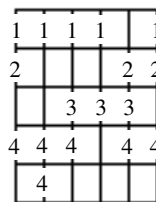
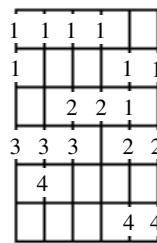
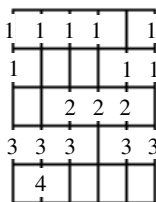
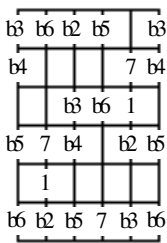
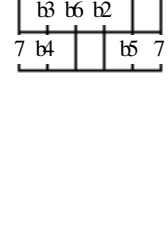
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2



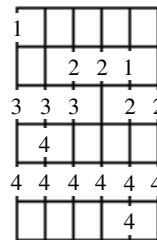
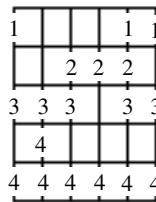
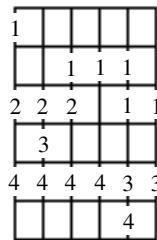
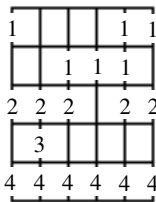
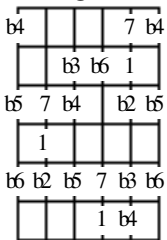
52

b3



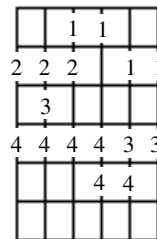
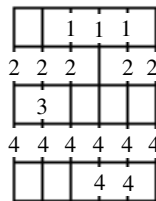
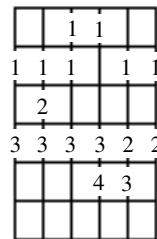
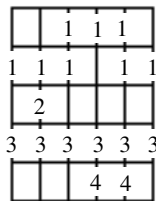
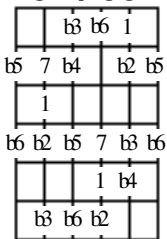
52

3



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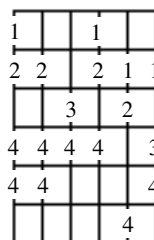
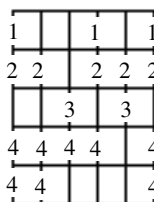
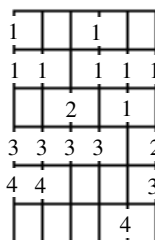
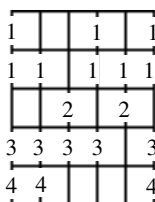
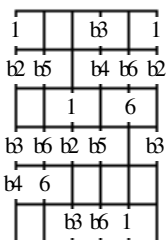
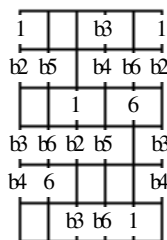
4



Locrian b4, bb7 scale

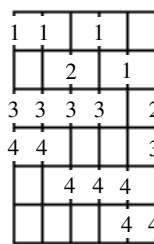
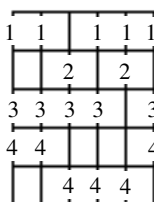
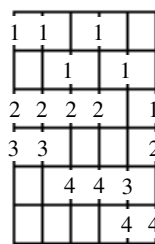
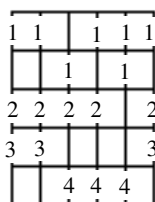
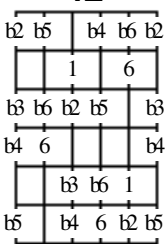
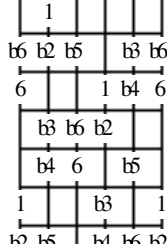
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1



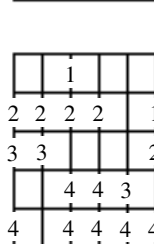
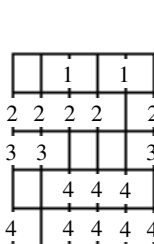
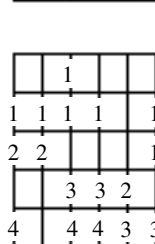
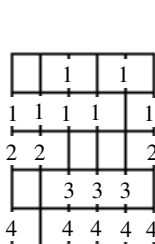
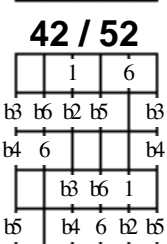
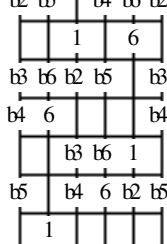
42

b2



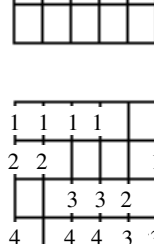
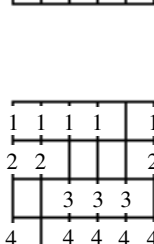
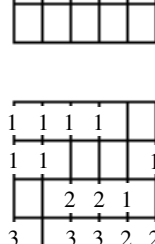
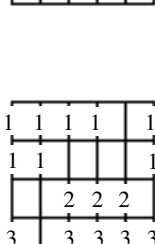
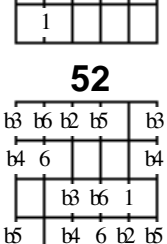
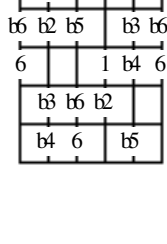
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2



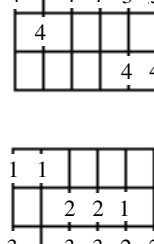
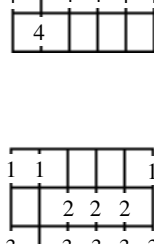
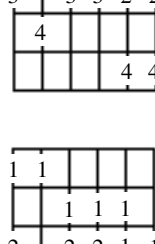
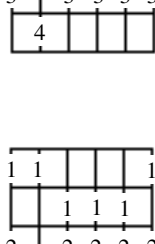
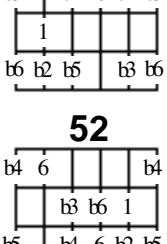
52

b3



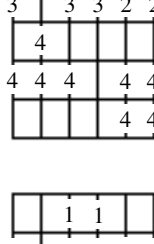
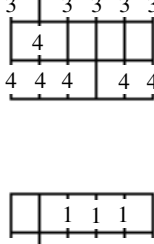
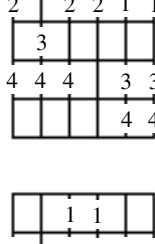
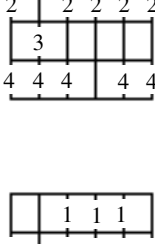
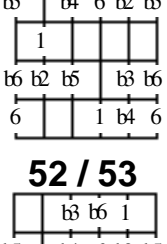
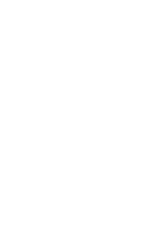
52

3



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4



53

b5

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5

631

b6

631

6

641

b7

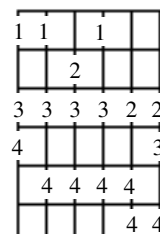
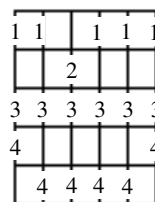
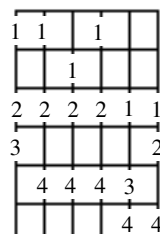
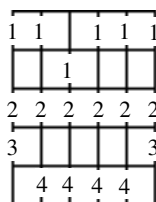
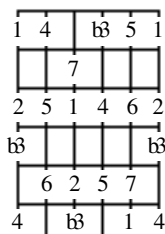
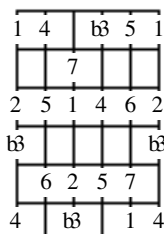
641

7

melodic minor scale (= major b3)

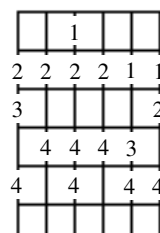
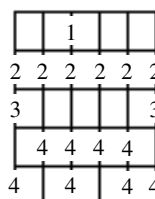
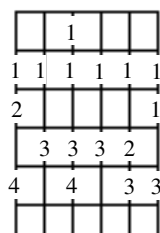
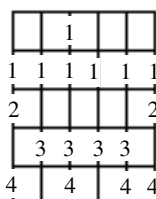
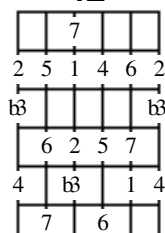
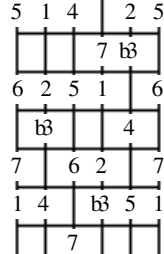
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1



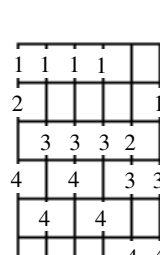
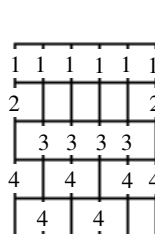
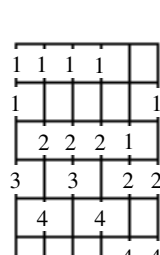
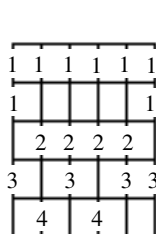
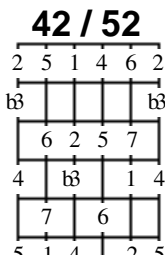
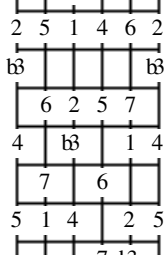
42

b2



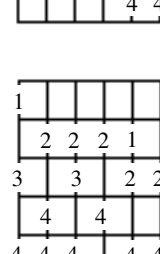
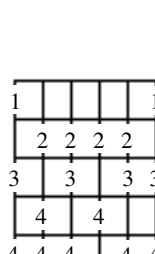
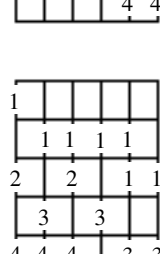
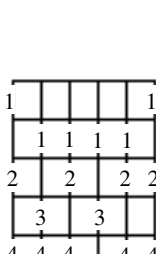
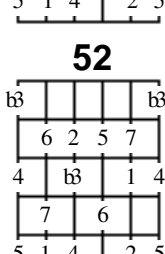
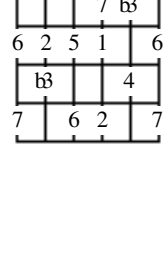
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2



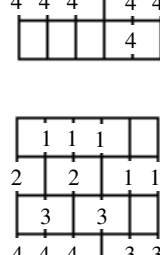
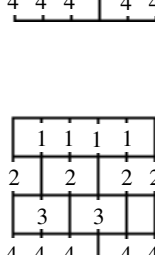
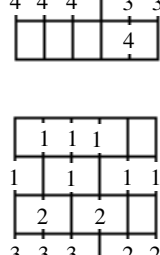
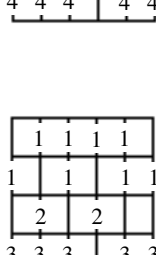
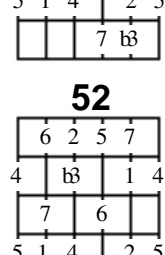
52

b3



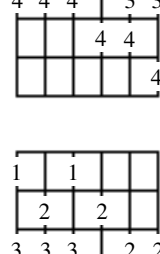
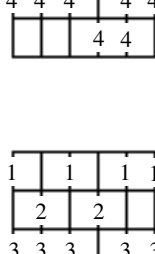
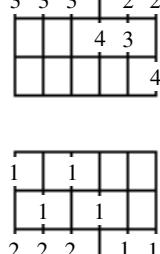
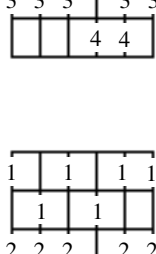
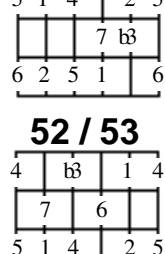
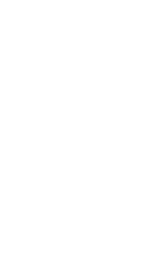
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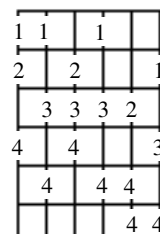
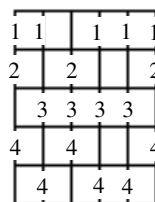
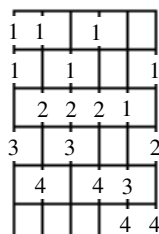
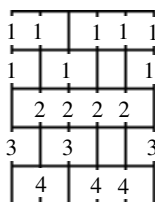
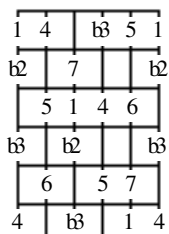
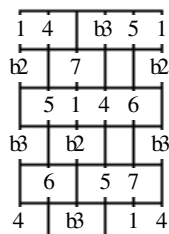


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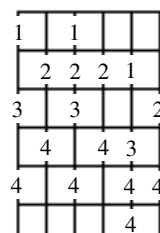
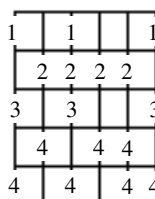
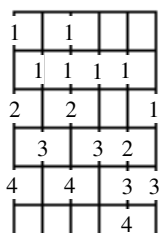
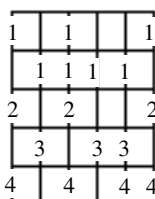
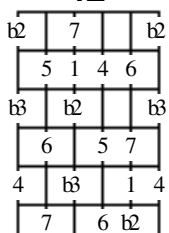
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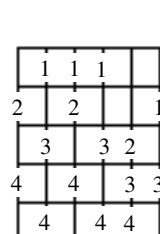
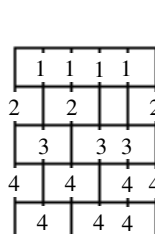
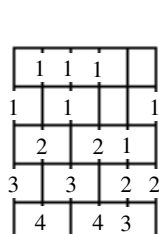
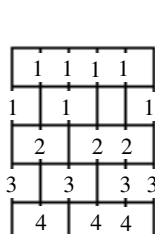
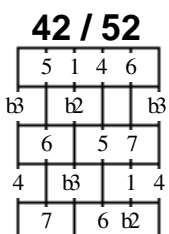
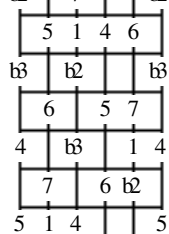
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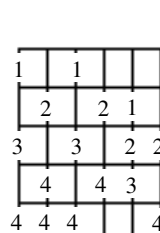
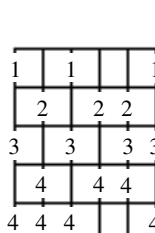
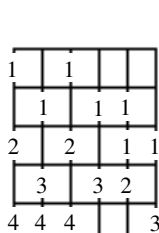
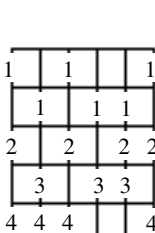
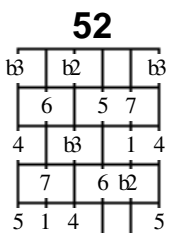
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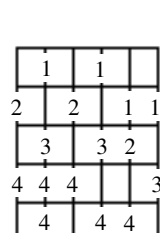
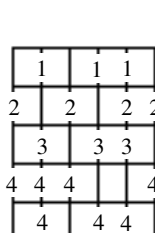
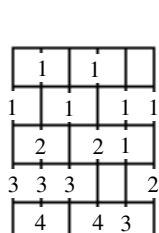
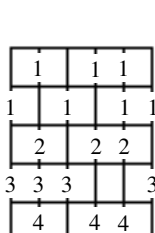
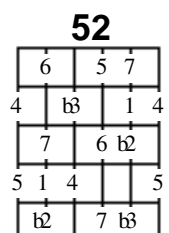
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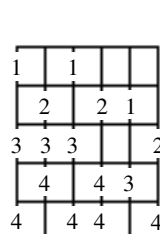
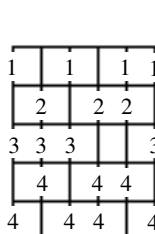
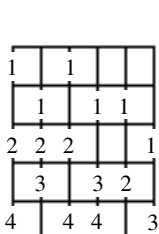
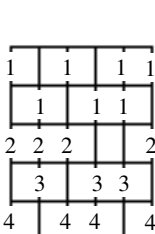
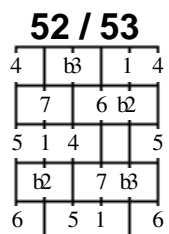
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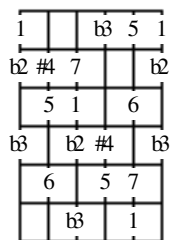
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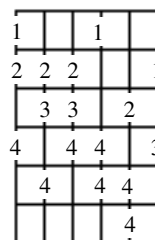
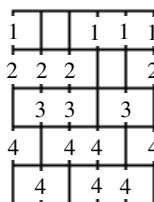
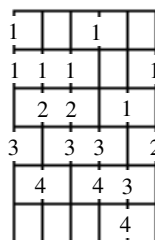
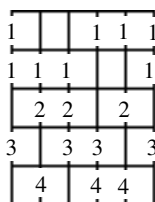
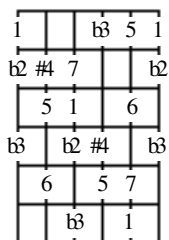
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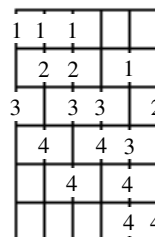
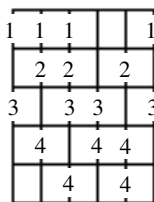
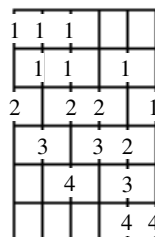
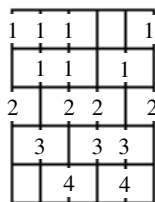
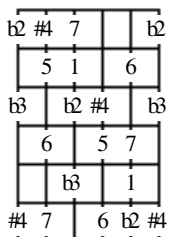


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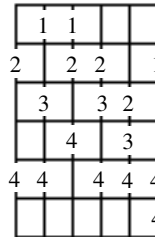
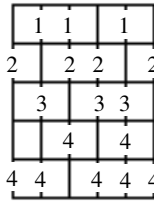
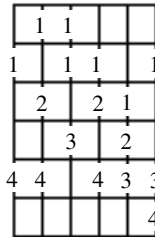
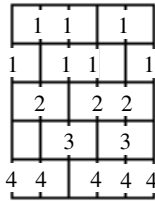
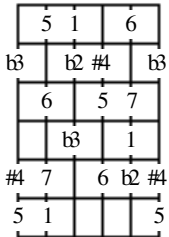
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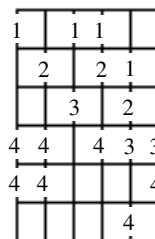
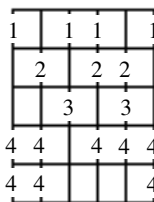
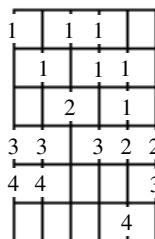
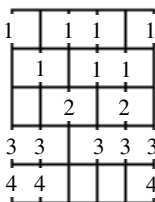
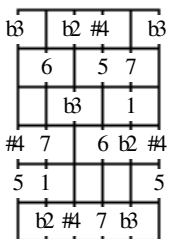
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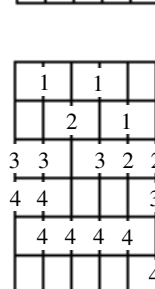
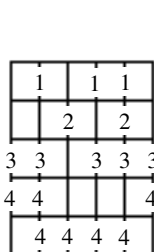
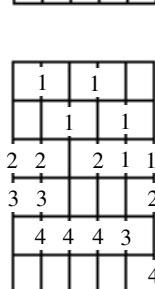
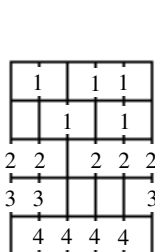
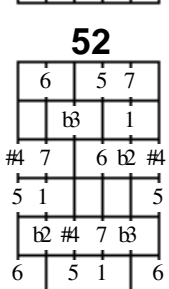
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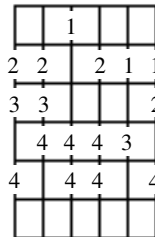
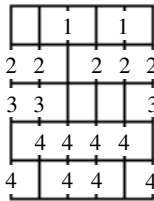
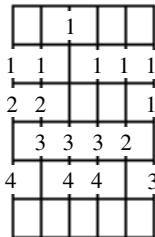
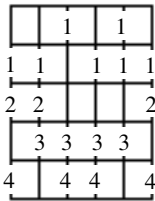
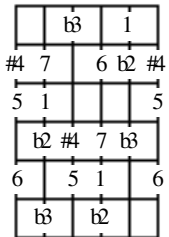
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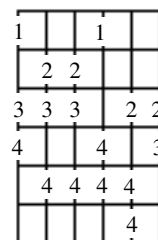
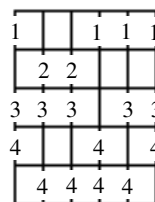
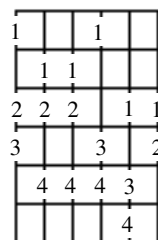
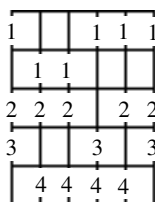
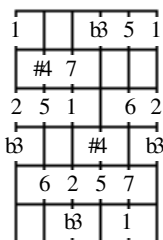
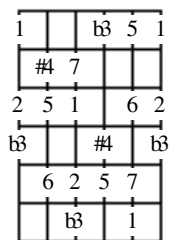
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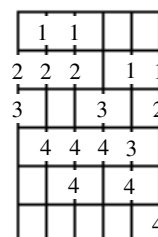
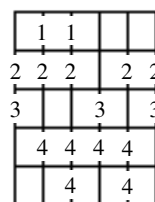
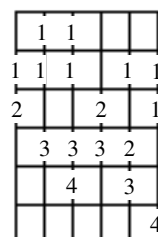
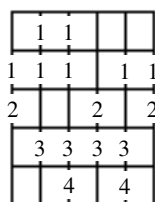
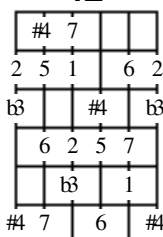
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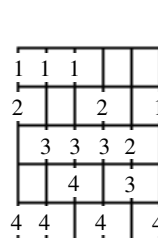
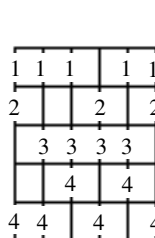
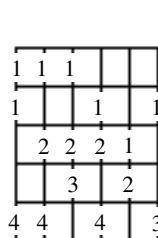
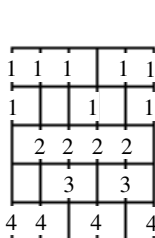
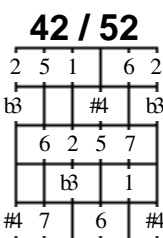
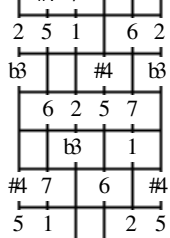
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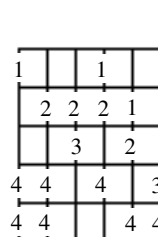
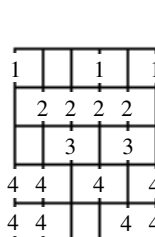
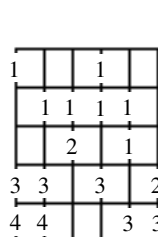
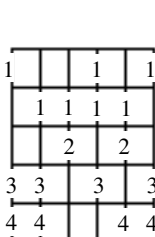
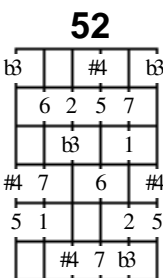
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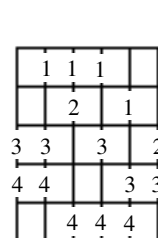
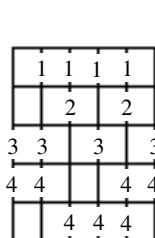
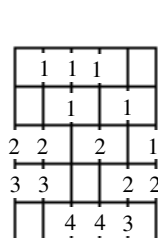
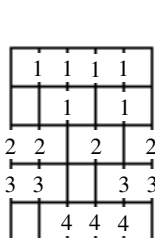
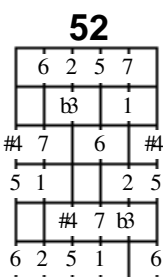
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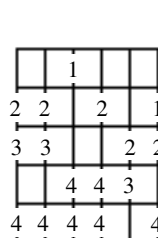
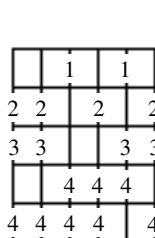
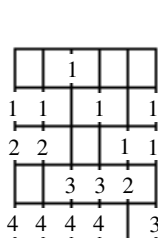
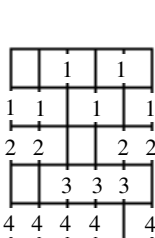
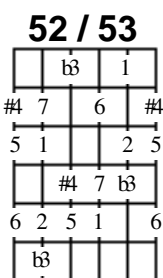
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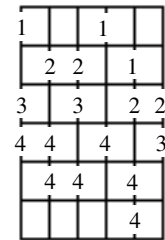
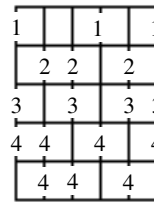
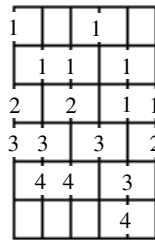
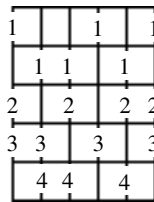
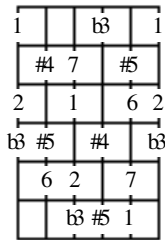
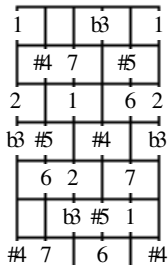


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melodic minor #4#5 scale

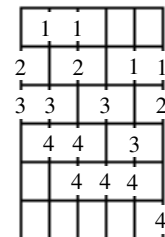
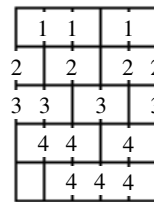
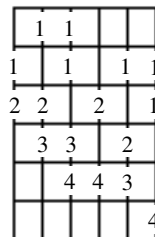
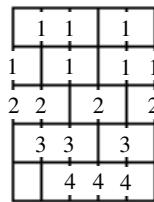
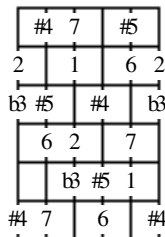
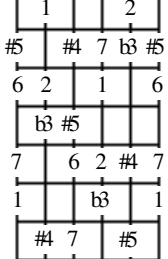
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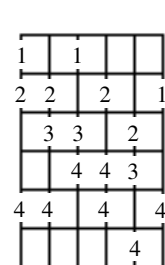
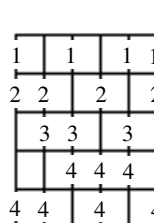
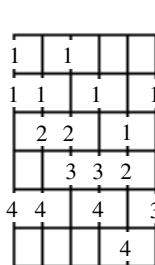
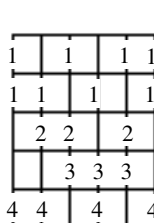
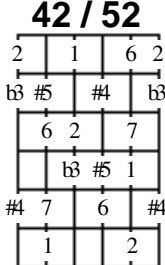
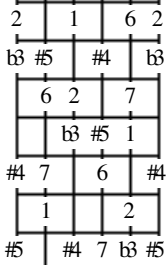
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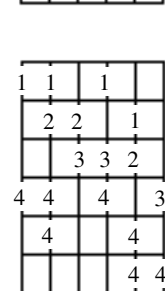
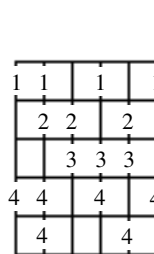
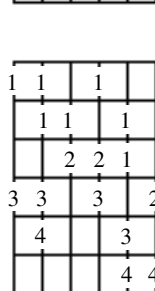
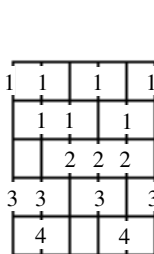
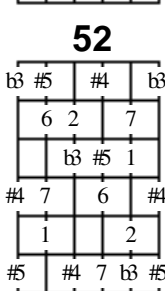
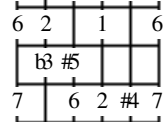
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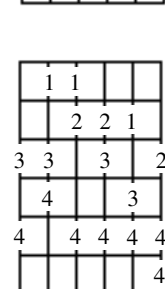
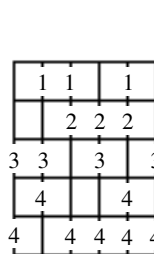
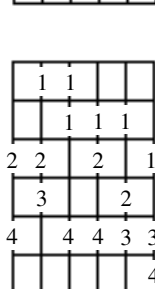
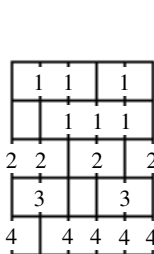
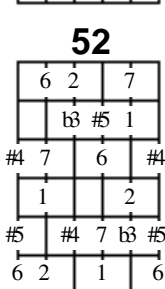
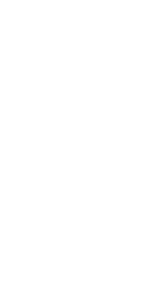
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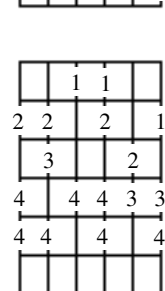
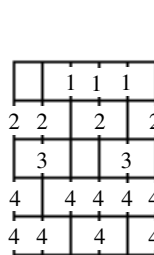
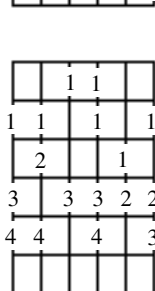
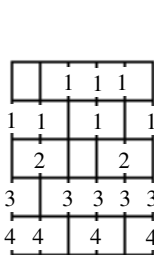
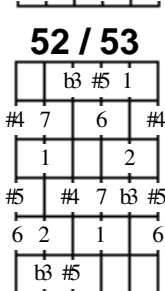
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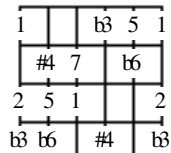
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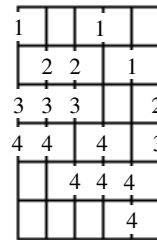
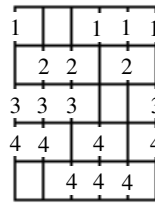
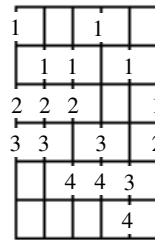
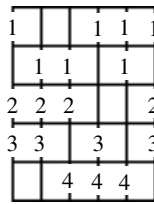
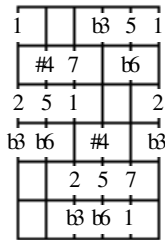
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		5	<div>53 / 631</div> <div>1 2</div> <div>#5 #4 7 b3 #5</div> <div>6 2 1 6</div> <div> b3 #5 </div> <div>7 6 2 #4 7</div> <div>1 b3 1</div>	<div>1 1 </div> <div>1 1 1 1 1</div> <div>2 2 2 2 2</div> <div>3 3 </div> <div>4 4 4 4 4</div>	<div>1 </div> <div>1 1 1 1 1</div> <div>2 2 2 1 </div> <div>3 3 </div> <div>4 4 4 3 3</div> <div> 4</div>	<div>1 1 </div> <div>2 2 2 2 2</div> <div>3 3 3 3</div> <div>4 4 </div> <div>4 4 4 4 4</div>	<div>1 </div> <div>2 2 2 1 1</div> <div>3 3 3 2</div> <div>4 4 </div> <div>4 4 4 4 4</div> <div> 4</div>		
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				6	<div>631</div> <div>6 2 1 6</div> <div> b3 #5 </div> <div>7 6 2 #4 7</div> <div>1 b3 1</div> <div>#4 7 #5</div> <div>2 1 6 2</div>	<div>1 1 1 1 1</div> <div>1 1 </div> <div>2 2 2 2 2</div> <div>3 3 3 3</div> <div>4 4 4 </div>	<div>1 1 1 </div> <div>1 1 </div> <div>2 2 2 1 1</div> <div>3 3 3 2</div> <div>4 4 3 3</div> <div> 4 4</div>	<div>1 1 1 1 1</div> <div>2 2 </div> <div>3 3 3 3 3</div> <div>4 4 4 4</div> <div>4 4 4 </div>	<div>1 1 1 </div> <div>2 2 </div> <div>3 3 3 2 2</div> <div>4 4 4 3</div> <div>4 4 4 4</div> <div> 4 4</div>
					b7	<div>641</div> <div> b3 #5 </div> <div>7 6 2 #4 7</div> <div>1 b3 1</div> <div>#4 7 #5</div> <div>2 1 6 2</div> <div>b3 #5 #4 b3</div>	<div>1 1 </div> <div>1 1 1 1 1</div> <div>2 2 2 2</div> <div>3 3 3 </div> <div>4 4 4 4</div>	<div>1 1 </div> <div>1 1 1 1 1</div> <div>2 2 2 1 </div> <div>3 3 3 2</div> <div>4 4 3 3</div> <div> 4 </div>	<div>1 1 </div> <div>2 2 2 2 2</div> <div>3 3 3 3</div> <div>4 4 4 4</div> <div>4 4 4 4</div>
7	<div>641</div> <div>7 6 2 #4 7</div> <div>1 b3 1</div> <div>#4 7 #5</div> <div>2 1 6 2</div> <div>b3 #5 #4 b3</div> <div>6 2 7</div>					<div>1 1 1 1 1</div> <div>1 1 1 1 1</div> <div>2 2 2 </div> <div>3 3 3 3 3</div> <div>4 4 4 4 4</div>	<div>1 1 1 </div> <div>1 1 1 1 </div> <div>2 2 2 1 </div> <div>3 3 3 2 2</div> <div>4 4 4 3 3</div> <div> 4 </div>	<div>1 1 1 1 1</div> <div>2 2 2 2 2</div> <div>3 3 3 3</div> <div>4 4 4 4 4</div> <div>4 4 4 4 4</div>	<div>1 1 1 </div> <div>2 2 2 1 </div> <div>3 3 3 2</div> <div>4 4 3 3</div> <div>4 4 4 4</div> <div> 4 </div>

melodic minor #4b6 scale

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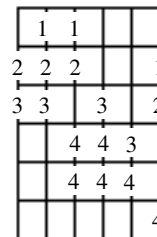
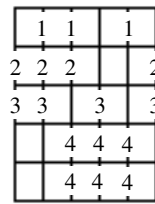
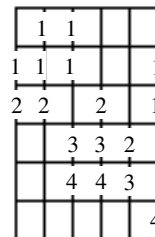
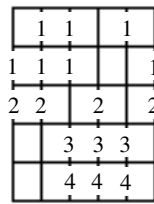
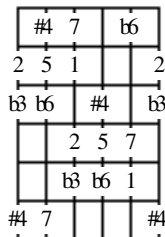


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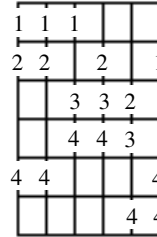
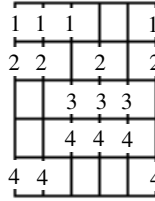
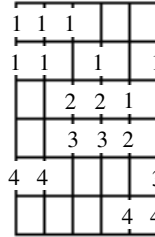
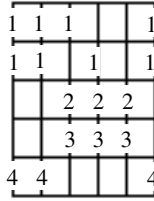
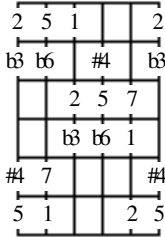
42

b2



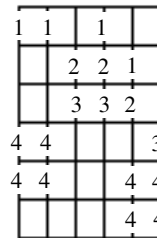
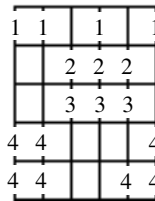
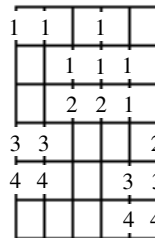
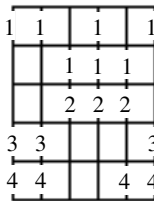
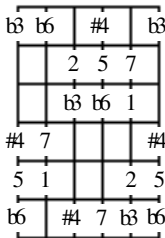
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2



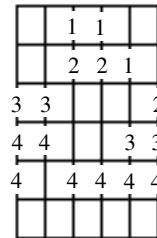
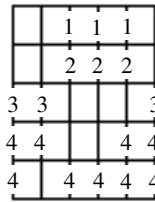
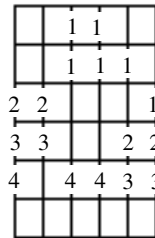
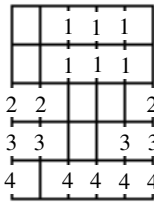
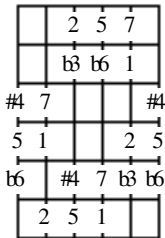
52

b3



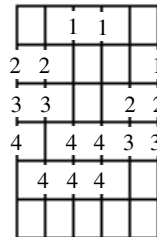
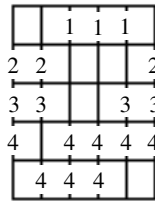
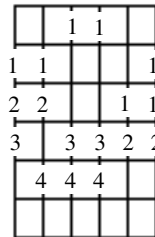
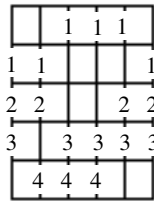
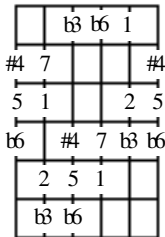
52

3



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4



1	1			
2	2			1
3		3	3	2
	4	4	4	
	4	4		
				4

1	1			
2		2	2	1
	3	3	3	
	4	4		
4			4	4
			4	4

1		1	1	
	2	2	2	
	3	3		
4			4	3
4			4	4

			4
--	--	--	---

1	1	1	
2	2		
3		3	2
4		4	2

4		4	5	5
4	4		4	
				4

	1	1		
2			2	1

3			3	2	2
	4	4		3	
4	4	4			4
					4

1			1		

2			2	1	1
	3	3		2	
4	4	4			
4	4		4		4
				4	

melodic minor #4#6 scale

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1

42

5 1 #6 2 5

	#4	7	b3	
2	5	1		

#6 b3 #6

7		2	#4	7
1	#6	b3	5	1
#4	7			

b2

#4	7			
2	5	1		2
b3		#4	#6	b3

	1	1		
1	1	1		1
2		2	2	2

	1	1		
1	1	1		1
2		2	1	1

	1	1		
2	2	2		2
3		3	3	3

	1	1		
2	2	2		1
3		3	2	2

	2	5	7	
#6	b3		1	
#4	7		#4	

	3	3	3	
4	4		4	
				4

	3	3	2	
4	4		3	
				4

	4	4	4	
4	4		4	
				4

	4	4	3	
4	4		4	
				4

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Figure 1 displays a 3x3 grid of 9 4x4 magic squares. The central square is labeled with a large '2'. The squares contain numbers and musical notes (b3, #4, #6, b3, #4, 5, 1, #6, 2, 5, #4, 7, b3).

52

b3

52

3

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4

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Diagram 4 shows five 3x3 magic squares. Each square contains numbers 1-9 and special characters #6, b3, and #4. The squares are arranged in a row. The first square has #6 at (1,1), b3 at (1,2), and #4 at (1,3), (2,1), and (3,3). The second square has #4 at (1,1), (1,3), (2,1), and (3,3). The third square has #4 at (1,1), (1,3), (2,1), and (3,3). The fourth square has #4 at (1,1), (1,3), (2,1), and (3,3). The fifth square has #4 at (1,1), (1,3), (2,1), and (3,3).

53

b5

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5

631

b6

631

6

641

b7

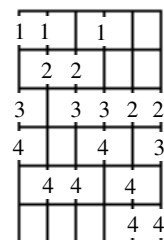
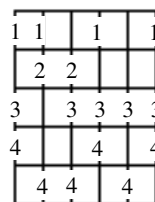
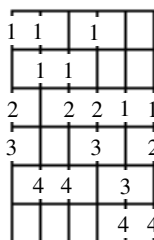
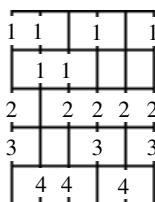
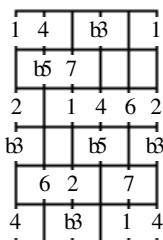
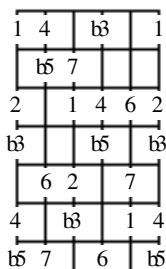
641

7

melodic minor b5 scale

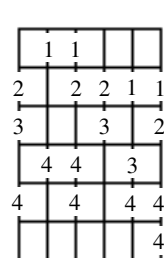
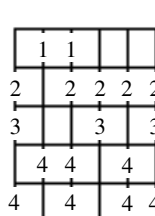
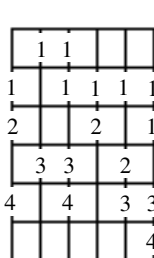
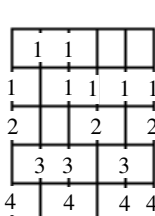
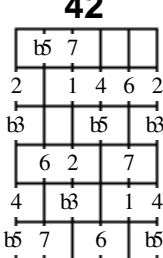
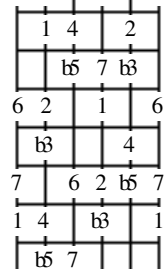
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1



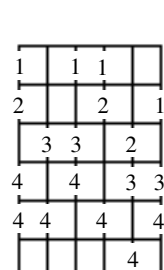
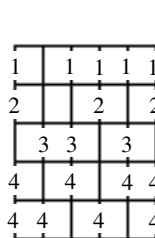
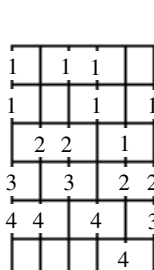
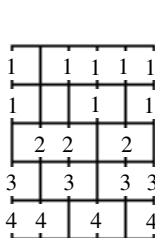
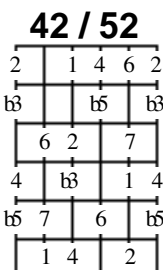
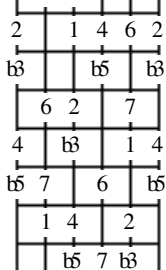
42

b2



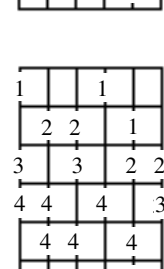
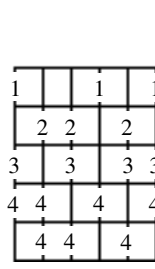
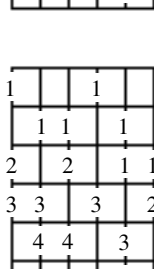
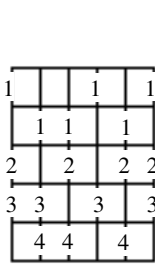
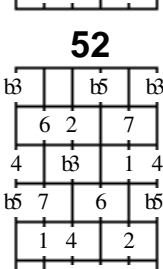
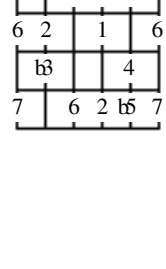
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2



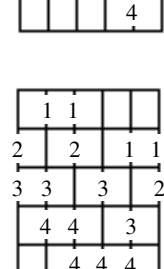
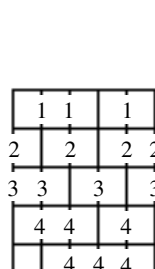
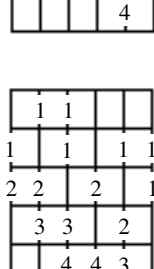
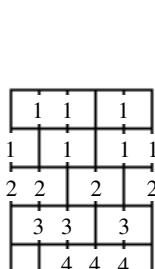
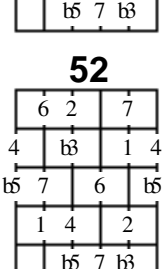
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b3



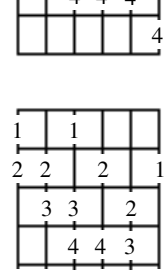
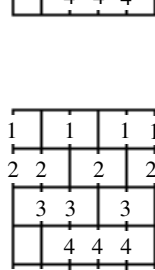
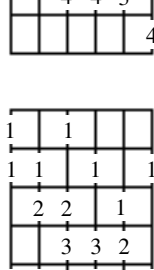
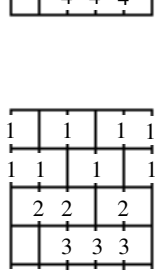
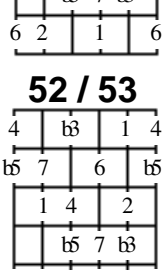
52

3



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4

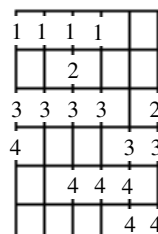
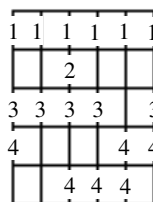
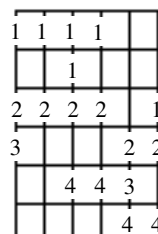
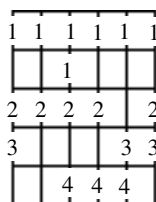
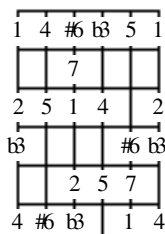
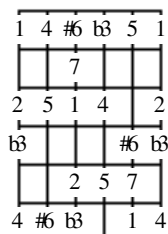


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		<p>53 / 631</p>	<p>5</p>	<p>1 4 2</p> <p>b5 7 b3</p> <p>6 2 1 6</p> <p>b3 4</p> <p>7 6 2 b5 7</p> <p>1 4 b3 1</p>	<p>1 1 1</p> <p>1 1 1</p> <p>2 2 2 2</p> <p>3 3</p> <p>4 4 4 4 4</p>	<p>1 1</p> <p>1 1 1</p> <p>2 2 2 1</p> <p>3 2</p> <p>4 4 4 3 3</p> <p>4</p>	<p>1 1 1</p> <p>2 2 2</p> <p>3 3 3 3</p> <p>4 4</p> <p>4 4 4 4 4</p>	<p>1 1</p> <p>2 2 1</p> <p>3 3 3 2</p> <p>4 3</p> <p>4 4 4 4 4</p> <p>4</p>		
		<p>631</p>		<p>b6</p>	<p>b5 7 b3</p> <p>6 2 1 6</p> <p>b3 4</p> <p>7 6 2 b5 7</p> <p>1 4 b3 1</p> <p>b5 7</p>	<p>1 1 1</p> <p>1 1 1 1</p> <p>2 2</p> <p>3 3 3 3 3</p> <p>4 4 4 4</p>	<p>1 1</p> <p>1 1 1 1</p> <p>2 1</p> <p>3 3 3 2 2</p> <p>4 4 4 3</p>	<p>1 1 1</p> <p>2 2 2 2</p> <p>3 3</p> <p>4 4 4 4 4</p> <p>4 4 4 4</p>	<p>1 1</p> <p>2 2 2 1</p> <p>3 2</p> <p>4 4 4 3 3</p> <p>4 4 4 4</p>	
		<p>631</p>			<p>6</p>	<p>6 2 1 6</p> <p>b3 4</p> <p>7 6 2 b5 7</p> <p>1 4 b3 1</p> <p>b5 7</p> <p>2 1 4 6 2</p>	<p>1 1 1 1</p> <p>1 1</p> <p>2 2 2 2 2</p> <p>3 3 3 3</p> <p>4 4</p>	<p>1 1 1</p> <p>1 1</p> <p>2 2 2 1 1</p> <p>3 3 3 2</p> <p>4 4 4</p> <p>4 4</p>	<p>1 1 1 1</p> <p>2 2</p> <p>3 3 3 3 3</p> <p>4 4 4 4</p> <p>4 4</p>	<p>1 1 1</p> <p>2 2 1</p> <p>3 3 3 2 2</p> <p>4 4 4 3</p> <p>4 4 4</p> <p>4 4</p>
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melodic minor #6 scale

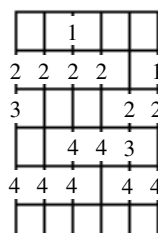
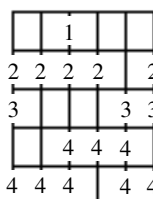
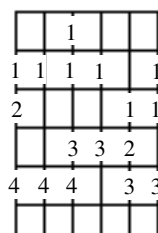
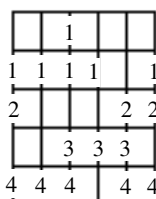
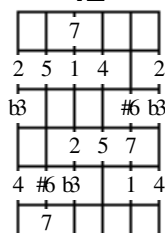
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1



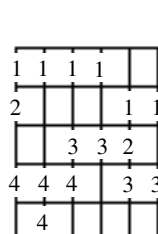
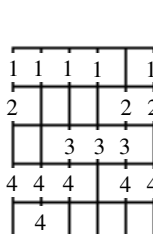
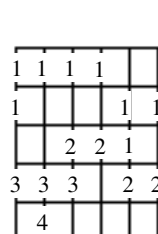
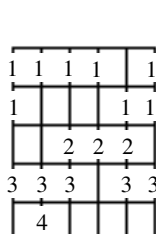
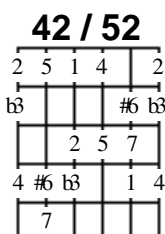
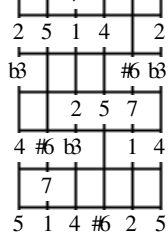
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b2



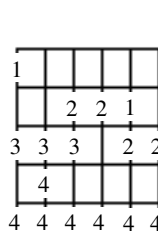
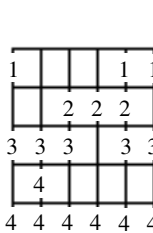
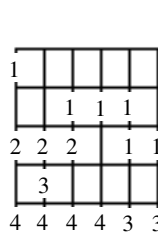
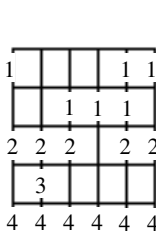
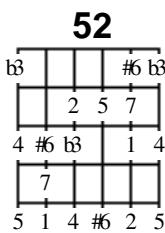
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2



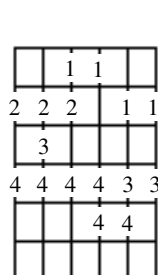
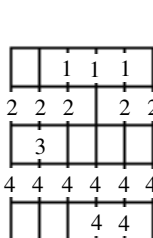
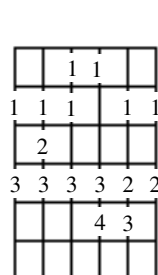
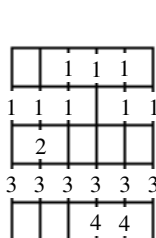
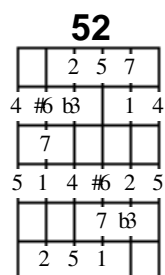
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b3



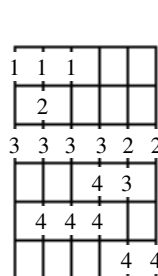
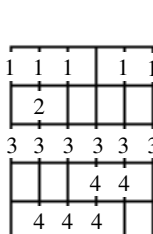
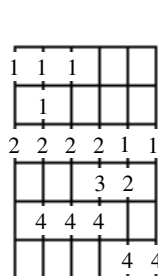
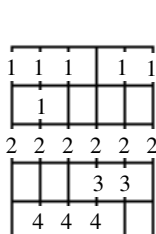
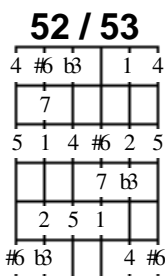
52

3



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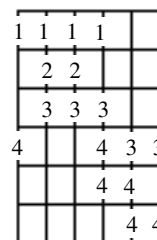
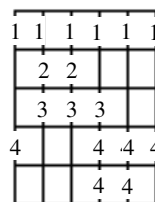
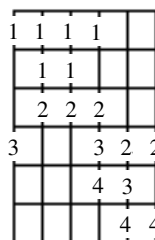
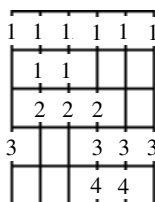
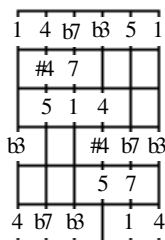
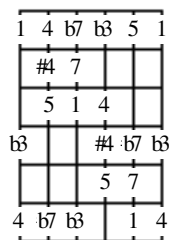
4



minor 7/11 with #4 and 7 scale

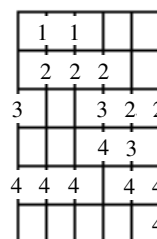
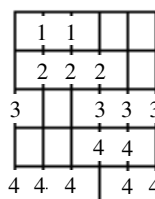
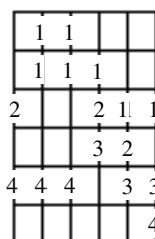
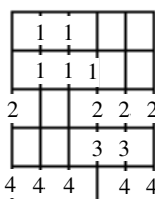
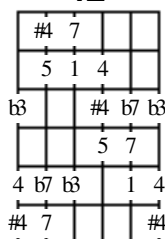
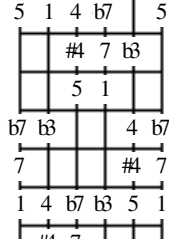
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1



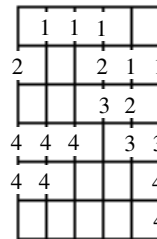
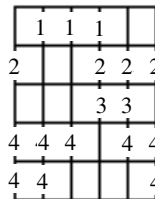
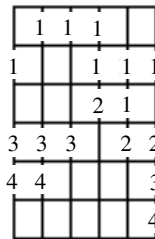
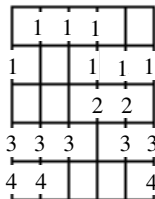
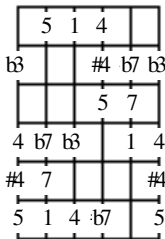
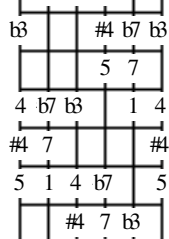
42

b2



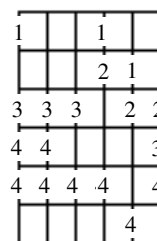
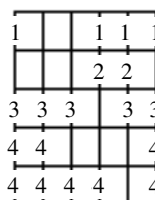
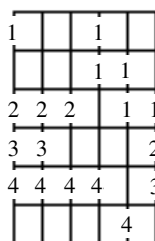
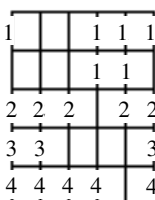
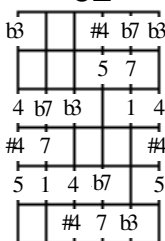
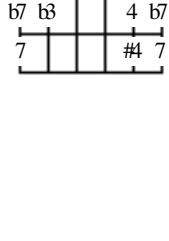
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2



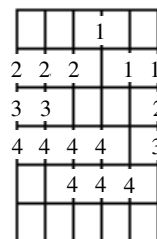
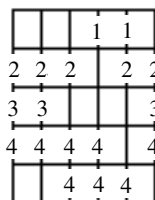
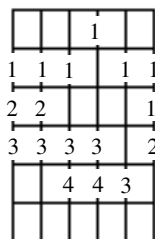
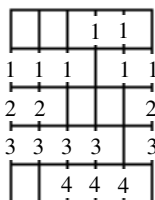
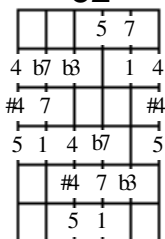
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b3



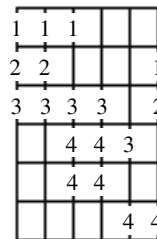
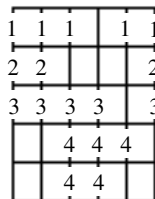
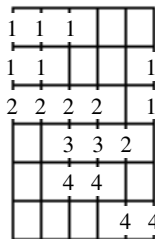
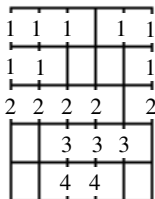
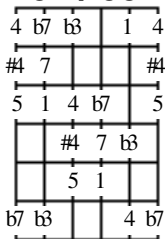
52

3



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4



53

b5

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5

631

b6

631

6

641

b7

641

7

The image displays 32 5x5 grids, each representing a different 5-note scale. Each grid contains numbers 1-7 and accidentals (#, b) indicating the scale's structure. The scales are arranged in a grid with labels b5, 5, b6, 6, b7, and 7 on the left.

b5

53

53 / 631

5

631

b6

631

6

641

b7

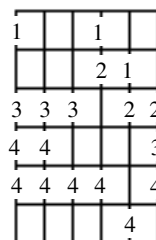
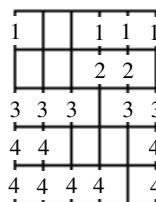
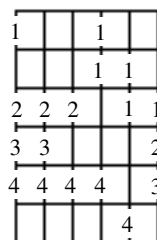
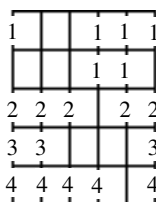
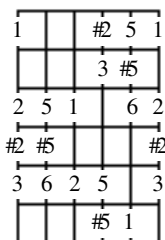
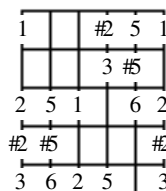
641

7

major 6/9 with #2 and #5 scale

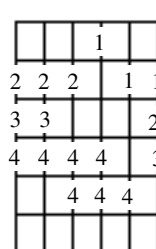
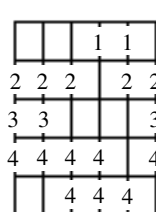
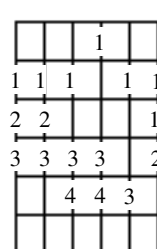
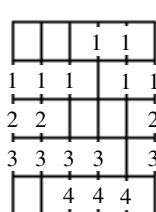
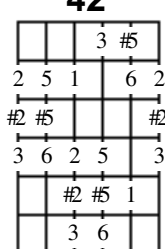
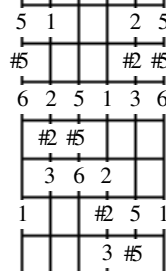
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1



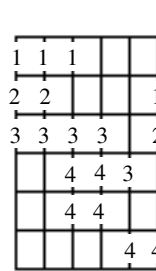
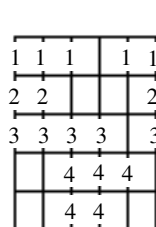
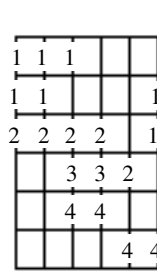
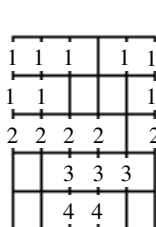
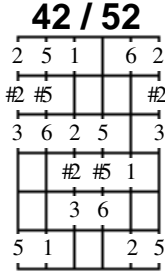
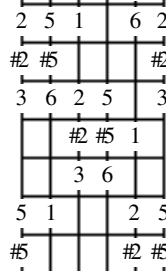
42

b2



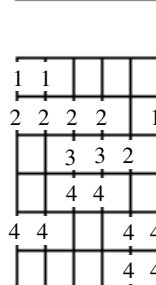
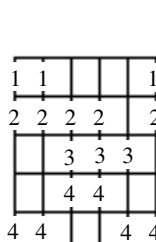
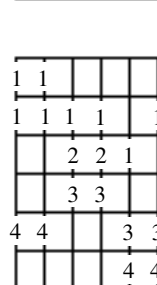
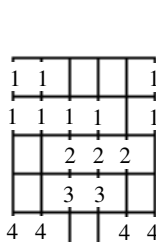
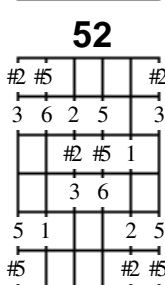
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2



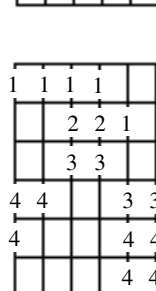
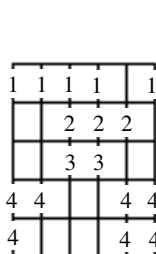
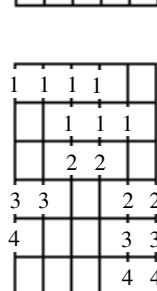
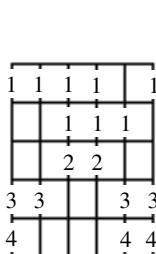
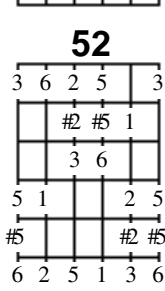
52

b3



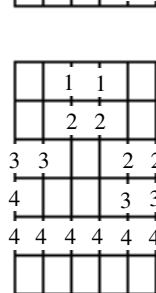
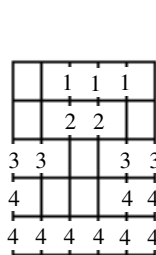
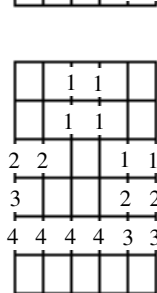
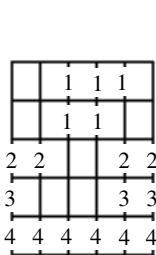
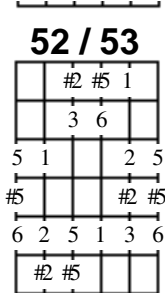
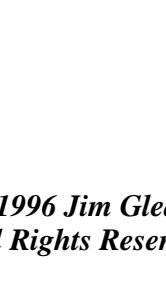
52

3



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4



53

b5

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5

631

b6

631

6

641

b7

641

7

The image displays a series of 48 4x4 grids, each containing a unique arrangement of numbers (1, 2, 3, 4, 5, 6) and symbols (#2, #5, #6). The grids are organized into rows and columns, with some rows having a label to their left (b5, 5, b6, 6, b7, 7). The grids represent different mathematical or logical configurations.

diminished half/whole scale (= 13b9#9#11)

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1

1	b7	#2	5	1
b2	#4	3	b2	
5	1	6		
#2	b2	#4	b7	#2
3	6	5	3	
b7	#2	1		
#4	3	6	b2	#4
5	1	b7	5	
b2	#4	#2		
6	5	1	3	6
b7	#2	b2	b7	
3	6	#4		
1	b7	#2	5	1
b2	#4	3	b2	
5	1	6		
#2	b2	#4	b7	#2
3	6	5	3	
b7	#2	1		
#4	3	6	b2	#4
5	1	b7	5	
b2	#4	#2		
6	5	1	3	6
b7	#2	b2	b7	
3	6	#4		

1	b7	#2	5	1
b2	#4	3	b2	
5	1	6		
#2	b2	#4	b7	#2
3	6	5	3	
b7		1		

1	1	1	1	1
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4

1	1	1		
1	1	1		
2	2	1		
3	3	3	2	2
4	4	4	3	
		4		

1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
4	4	4	4	4

1	1	1		
2	2	2	1	
3	3	3	2	
4	4	4	3	3
4	4	4	4	4
		4		

42

b2

b2	#4	3	b2	
5	1	6		
#2	b2	#4	b7	#2
3	6	5	3	
b7	#2	1		
#4	3	6	b2	#4

1	1	1	1	1
1	1	1		
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4

1	1	1		
1	1	1		
2	2	2	1	1
3	3	3	2	2
4	4	4	3	
		4	4	

1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
4	4	4	4	4

1	1	1		
2	2	1		
3	3	3	2	2
4	4	4	3	
4	4	4	4	4
		4	4	

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2

5	1	6		
#2	b2	#4	b7	#2
3	6	5	3	
b7	#2	1		
#4	3	6	b2	#4
5	1	b7	5	

1	1	1	1	1
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4

1	1			
1	1	1	1	1
2	2	2	1	
3	3	3	2	
4	4	4	3	3
			4	

1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
4	4	4	4	4

1	1			
2	2	2	1	1
3	3	3	2	
4	4	4	3	
4	4	4	4	4
			4	

52

b3

#2	b2	#4	b7	#2
3	6	5	3	
b7	#2	1		
#4	3	6	b2	#4
5	1	b7	5	
b2	#4	#2		

1	1	1	1	1
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4

1	1	1		
1	1	1	1	1
2	2	2	1	
3	3	3	2	2
4	4	4	3	
		4		

1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
4	4	4	4	4

1	1	1		
2	2	2	1	
3	3	3	2	
4	4	4	3	3
4	4	4	4	4
		4		

52

3

3	6	5	3	
b7	#2	1		
#4	3	6	b2	#4
5	1	b7	5	
b2	#4	#2		
6	5	1	3	6

1	1	1	1	1
1	1	1		
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4

1	1	1		
1	1	1	1	1
2	2	2	1	1
3	3	3	2	
4	4	4	3	
		4	4	4

1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
4	4	4	4	4

1	1	1		
2	2	2	1	
3	3	3	2	2
4	4	4	3	
4	4	4	4	4
		4	4	

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4

b7	#2	1		
#4	3	6	b2	#4
5	1	b7	5	
b2	#4	#2		
6	5	1	3	6
b7	#2	b2	b7	

1	1	1	1	1
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4

1	1			
1	1	1	1	1
2	2	2	1	
3	3	3	2	
4	4	4	3	3
			4	

1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
4	4	4	4	4

1	1			
2	2	2	1	1
3	3	3	2	
4	4	4	3	
4	4	4	4	4
			4	

53

b5

1 | b7 #2 5 1
b2 #4 | 3 | b2
5 1 | 6 |
#2 | b2 #4 b7 #2
3 6 | 5 | 3
b7 #2 | 1 |
#4 | 3 6 b2 #4
5 1 | b7 | 5
b2 #4 | #2 |
6 | 5 1 3 6
b7 #2 | b2 | b7
3 6 | #4 |
1 | b7 #2 5 1
b2 #4 | 3 | b2
5 1 | 6 |
#2 | b2 #4 b7 #2
3 6 | 5 | 3
b7 #2 | 1 |
#4 | 3 6 b2 #4
5 1 | b7 | 5
b2 #4 | #2 |
6 | 5 1 3 6
b7 #2 | b2 | b7
3 6 | #4 |

5

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The musical score is a 12-measure phrase. The notes and intervals are as follows:

- Measure 1: 5
- Measure 2: 1
- Measure 3: b7
- Measure 4: 5
- Measure 5: b2
- Measure 6: #4
- Measure 7: #2
- Measure 8: 6
- Measure 9: 5
- Measure 10: 1
- Measure 11: 3
- Measure 12: 6

The intervals between measures are:

- Measure 1 to 2: b7
- Measure 2 to 3: #2
- Measure 3 to 4: #4
- Measure 4 to 5: b2
- Measure 5 to 6: #4
- Measure 6 to 7: #2
- Measure 7 to 8: b7
- Measure 8 to 9: #4
- Measure 9 to 10: b2
- Measure 10 to 11: #4
- Measure 11 to 12: b7

The accidentals are:

- Measure 3: b7
- Measure 5: b2
- Measure 6: #4
- Measure 7: #2
- Measure 9: b7
- Measure 10: b2
- Measure 11: #4
- Measure 12: b7

631

b6

A 5x5 grid with numbers and musical notes. The grid is as follows:

	b2	#4	#2	
6		5	1	3
b7	#2		b2	b7
	3	6	#4	
1		b7	#2	5

Arrows indicate connections between adjacent cells (horizontally and vertically). The connections are as follows:

- Row 1: 6 to 5, 5 to 1, 1 to 3, 3 to 6.
- Row 2: b7 to #2, #2 to b2, b2 to b7.
- Row 3: 1 to b7, b7 to #2, #2 to 5, 5 to 1.
- Row 4: b2 to #4, #4 to 3, 3 to b2.
- Row 5: b7 to #2, #2 to b2, b2 to b7.

631

6

A 4x4 grid with numbers and symbols. The grid is as follows:

6	5	1	3
b7	#2	b2	b7
3	6	#4	
1	b7	#2	5
b2	#4	3	b2
5	1	6	

641

b7

b7	#2	b2	b7
3	6	#4	
1	b7	#2	5
b2	#4	3	b2
5	1	6	
#2	b2	#4	b7

641

7

1		1	1	1	1
1	1		1		1
	2	2		2	
3		3	3	3	3
4	4		4		4

1		1	1	
1	1		1	
	2	2		1
3		3	3	2
4	4		4	
				4

1	1	1	1
2	2	2	
	3	3	3
4	4	4	4
4	4	4	

1	1	1	
2	2	2	
	3	3	2
4	4	4	3
4	4	4	
			4

1	1	1	1	1
	1	1	1	
2		2	2	2
	3		3	
		4	4	

1	1		1	
	1	1		1
2		2	2	1
3	3		3	
	4	4		3
				4

1	1	1	
	2	2	2
3		3	3
4	4		4
	4	4	4

1	1		1	
	2	2		1
3		3	3	2
4	4		4	
	4	4		4
				4

	1	1		1	
1		1	1	1	1
2	2		2		2
	3	3		3	
4		4	4	4	4

	1	1		
1		1	1	1
2	2		2	
	3	3		2
4		4	4	3

	1	1		1
2		2	2	2
3	3		3	
	4	4		4
4		4	4	4

	1	1		
2		2	2	1
3	3		3	
	4	4		3
4			4	4

1	1	1	1	1
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4

1		1	1	
1	1		1	
	2	2		1
3		3	3	2
4	4		4	
				4

1	1	1	1
2	2	2	
	3	3	3
4		4	4
4	4		4

1	1	1	
2	2	2	
	3	3	2
4	4	4	3
4	4	4	
			4

1	1	1	1	1
	1	1	1	
2		2	2	2
3	3		3	
	4	4	4	

1	1	1	
	1	1	1
2		2	2
3	3		3
	4	4	3
			4

1	1	1	
	2	2	2
3		3	3
4	4		4
	4	4	4

1	1		1	
	2	2		1
3		3	3	2
4	4		4	
	4	4		4
				4

	1	1	1	
1		1	1	1
2	2		2	2
	3	3		3
4		4	4	4

	1	1		
1		1	1	1
2	2		2	
	3	3		2
4		4	4	3

	1	1	1
2		2	2
3	3		3
	4	4	4
4		4	4

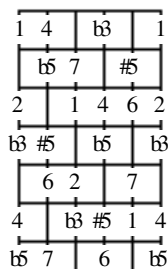
	1	1		
2		2	2	1
3	3		3	
	4	4		3
4		4	4	4

diminished whole/half scale

(= °7 with lower chromatics)

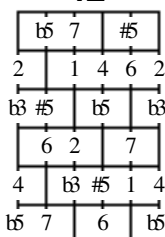
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1



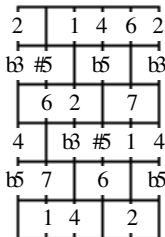
42

b2



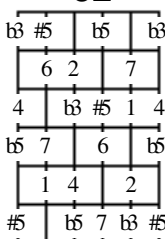
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2



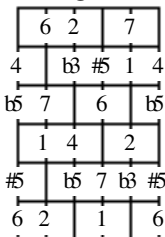
52

b3



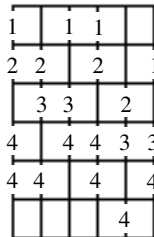
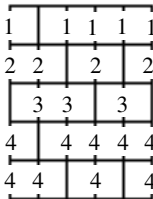
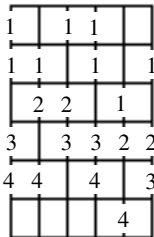
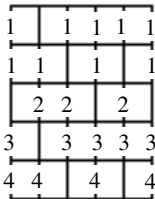
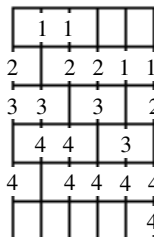
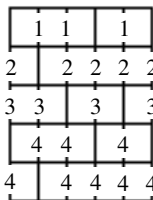
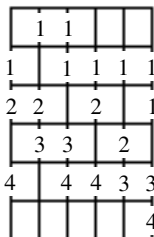
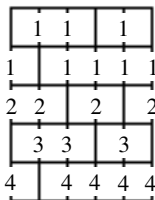
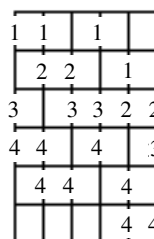
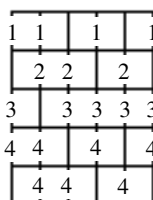
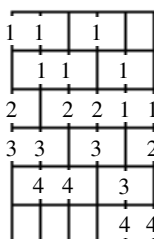
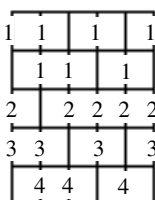
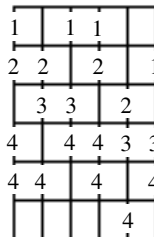
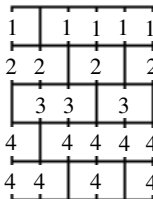
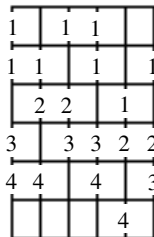
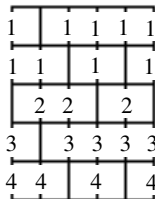
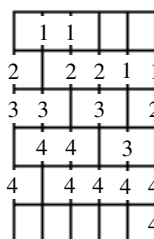
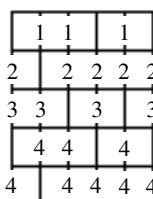
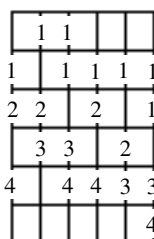
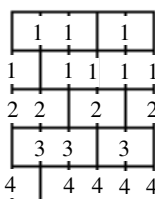
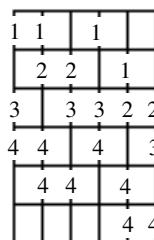
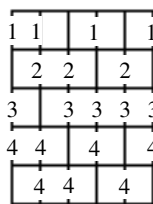
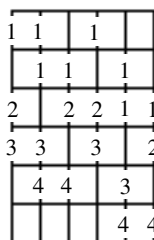
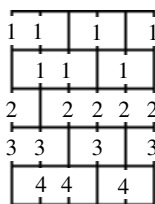
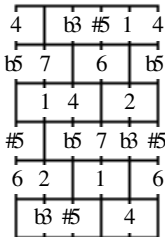
52

3



52 / 53

4



		53					
1 4 b3 1	b5 7 6 b5	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1
b5 7 #5	1 4 2	1 1 1 1	1 1 1 1	2 2 2 2	2 2 2 2	2 2 2 2	2 2 2 2
2 1 4 6 2	#5 b5 7 b3 #5	2 2 2 2 2	2 2 2 2 1	3 3 3 3 3	3 3 3 3 3	3 3 3 3 3	3 3 3 3 3
b3 #5 b5 b3	6 2 1 6	3 3 3 3	3 3 3 2	4 4 4 4	4 4 4 4	4 4 4 4	4 4 4 4
6 2 7	b3 #5 4	4 4 4	4 4 3	4 4 4	4 4 4	4 4 4	4 4 4
4 b3 #5 1 4	7 6 2 b5 7		4 4				
b5 7 6 b5							
1 4 2	53 / 631	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1
#5 b5 7 b3 #5	1 4 2	1 1 1 1 1	1 1 1 1 1	2 2 2 2 2	2 2 2 2 2	2 2 2 2 2	2 2 2 2 2
6 2 1 6	#5 b5 7 b3 #5	2 2 2 2	2 2 2 1	3 3 3 3	3 3 3 3	3 3 3 3	3 3 3 3
b3 #5 4	6 2 1 6	3 3 3	3 3 2	4 4 4	4 4 4	4 4 4	4 4 4
7 6 2 b5 7	b3 #5 4	4 4 4 4 4	4 4 4 3 3	4 4 4 4 4	4 4 4 4 4	4 4 4 4 4	4 4 4 4 4
1 4 b3 1	7 6 2 b5 7						
b5 7 #5	1 4 b3 1						
2 1 4 6 2	631	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1
b3 #5 b5 b3	#5 b5 7 b3 #5	1 1 1 1 1	1 1 1 1 1	2 2 2 2 2	2 2 2 2 2	2 2 2 2 2	2 2 2 2 2
6 2 7	6 2 1 6	2 2 2	2 2 1	3 3 3	3 3 3	3 3 3	3 3 3
4 b3 #5 1 4	b3 #5 4	3 3 3 3 3	3 3 3 2 2	4 4 4 4 4	4 4 4 4 4	4 4 4 4 4	4 4 4 4 4
b5 7 6 b5	7 6 2 b5 7	4 4 4 4	4 4 4 3	4 4 4 4	4 4 4 4	4 4 4 4	4 4 4 4
1 4 2	1 4 b3 1						
#5 b5 7 b3 #5	b5 7 #5						
6 2 1 6							
b3 #5 4	631	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1
7 6 2 b5 7	6 2 1 6	1 1 1	1 1 1	2 2 2	2 2 2	2 2 2	2 2 2
	b3 #5 4	2 2 2 2 2	2 2 2 1	3 3 3 3 3	3 3 3 3 3	3 3 3 3 3	3 3 3 3 3
	7 6 2 b5 7	3 3 3 3	3 3 3 2	4 4 4 4 4	4 4 4 4 4	4 4 4 4 4	4 4 4 4 4
	1 4 b3 1	4 4 4	4 4 3	4 4 4 4	4 4 4 4	4 4 4 4	4 4 4 4
	b5 7 #5						
	2 1 4 6 2						
	641	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1
	b3 #5 4	1 1 1	1 1 1	2 2 2	2 2 2	2 2 2	2 2 2
	7 6 2 b5 7	2 2 2 2 2	2 2 2 1	3 3 3 3 3	3 3 3 3 3	3 3 3 3 3	3 3 3 3 3
	1 4 b3 1	3 3 3 3	3 3 3 2	4 4 4 4 4	4 4 4 4 4	4 4 4 4 4	4 4 4 4 4
	b5 7 #5	4 4 4 4	4 4 3	4 4 4 4	4 4 4 4	4 4 4 4	4 4 4 4
	2 1 4 6 2						
	b3 #5 b5 b3						
	641	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1
	7 6 2 b5 7	1 1 1	1 1 1	2 2 2	2 2 2	2 2 2	2 2 2
	1 4 b3 1	2 2 2 2 2	2 2 2 1	3 3 3 3 3	3 3 3 3 3	3 3 3 3 3	3 3 3 3 3
	b5 7 #5	3 3 3 3	3 3 3 2	4 4 4 4 4	4 4 4 4 4	4 4 4 4 4	4 4 4 4 4
	2 1 4 6 2	4 4 4 4	4 4 3	4 4 4 4	4 4 4 4	4 4 4 4	4 4 4 4
	b3 #5 b5 b3						
	6 2 7						
	7	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1
	1 4 b3 1	1 1 1	1 1 1	2 2 2	2 2 2	2 2 2	2 2 2
	b5 7 #5	2 2 2 2 2	2 2 2 1	3 3 3 3 3	3 3 3 3 3	3 3 3 3 3	3 3 3 3 3
	2 1 4 6 2	3 3 3 3	3 3 3 2	4 4 4 4 4	4 4 4 4 4	4 4 4 4 4	4 4 4 4 4
	b3 #5 b5 b3	4 4 4 4	4 4 3	4 4 4 4	4 4 4 4	4 4 4 4	4 4 4 4
	6 2 7						

CHROMATIC SCALE AND CHROMATIC INSERTION

The chromatic scale includes all twelve notes in each octave. It can be illustrated most easily on the guitar by playing notes on twelve consecutive frets of the same string.

1			
1			
2			
3			
4			
1			
2			
3			
4			
1			
2			
3			
4			

On a keyboard instrument (such as a piano) playing every black and white key in order left to right (or right to left) produces the chromatic scale.

The chromatic scale can also be played on the guitar in one position or in “regressive” form. The “regressive” fingering can be played fast.

one position	
up	down
1 1 1 1 1	1 1 1 1 1
2 2 2 2 2	2 2 2 2 2
3 3 3 3 3	3 3 3 3 3
4 4 4 4 4	4 4 4 4 4
4 4 4 4 4	4 4 4 4 4

regressive

				1
		1	1	2
	1	2	2	3
1	2	3	3	4
1	2	3	4	4
2	3	4		
3	4			
4				

Chromatic insertion is a melodic device where chromatic notes are added in-between the existing notes of a scale or an arpeggio.

pentatonic scale

1	1	1	1	1
3	3	2		
4			3	3

pentatonic scale with chromatics

1	1	1	1	1
	2	2		
	3	3	2	
4			3	3
				4

minor 9th arpeggio

		1	1
	3		3
		4	

descending minor 9th arpeggio with chromatics

		1	1	1
				2
	3			3
			4	
			4	

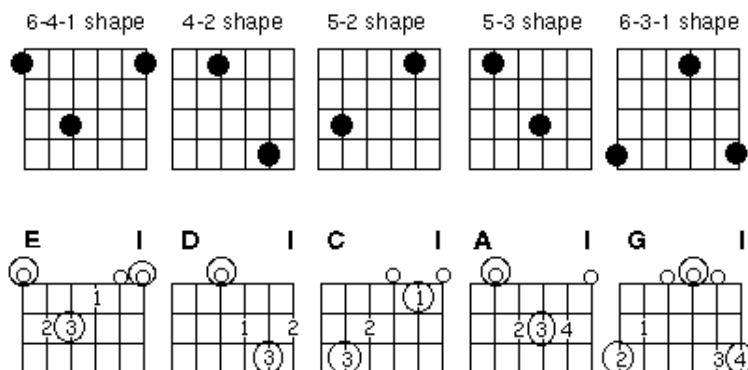
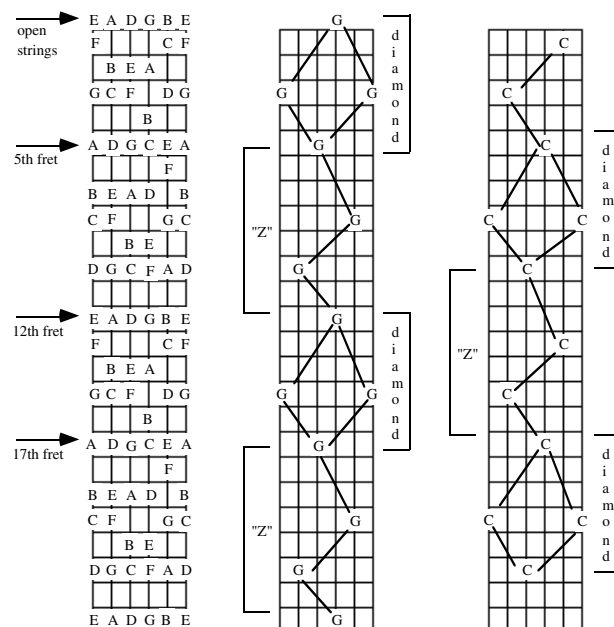
SCALES DEMYSTIFIED

A. SEVEN BASIC MAJOR SCALE FINGERINGS (STRICT VERTICAL).

Notice how all of the “G’s”, or all of the “C’s,” or all of any single note name on the fretboard forms a “diamond and Z” pattern shown at the left. This pattern can be broken down into five octave shapes. The shapes are named after the strings on which they occur.

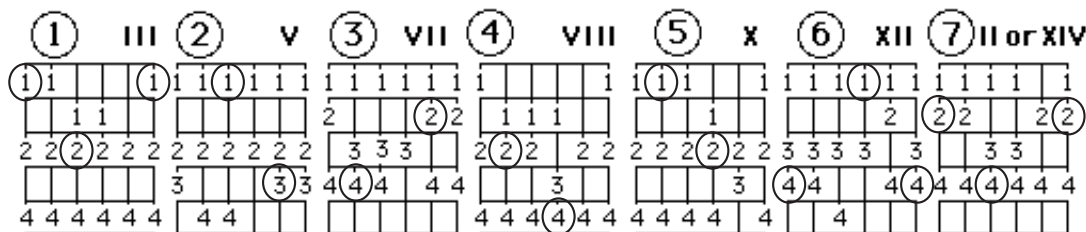
The five octave shapes below can be remembered by relating them to the five major first-position chords. The enlarged circles represent the chord roots. In each chord, the chord roots form the shape shown above.

The five shapes are movable. The top of each diagram may be placed at any fret. When applied to chords and scales, these shapes provide a great learning advantage. The shapes can be placed on any note..

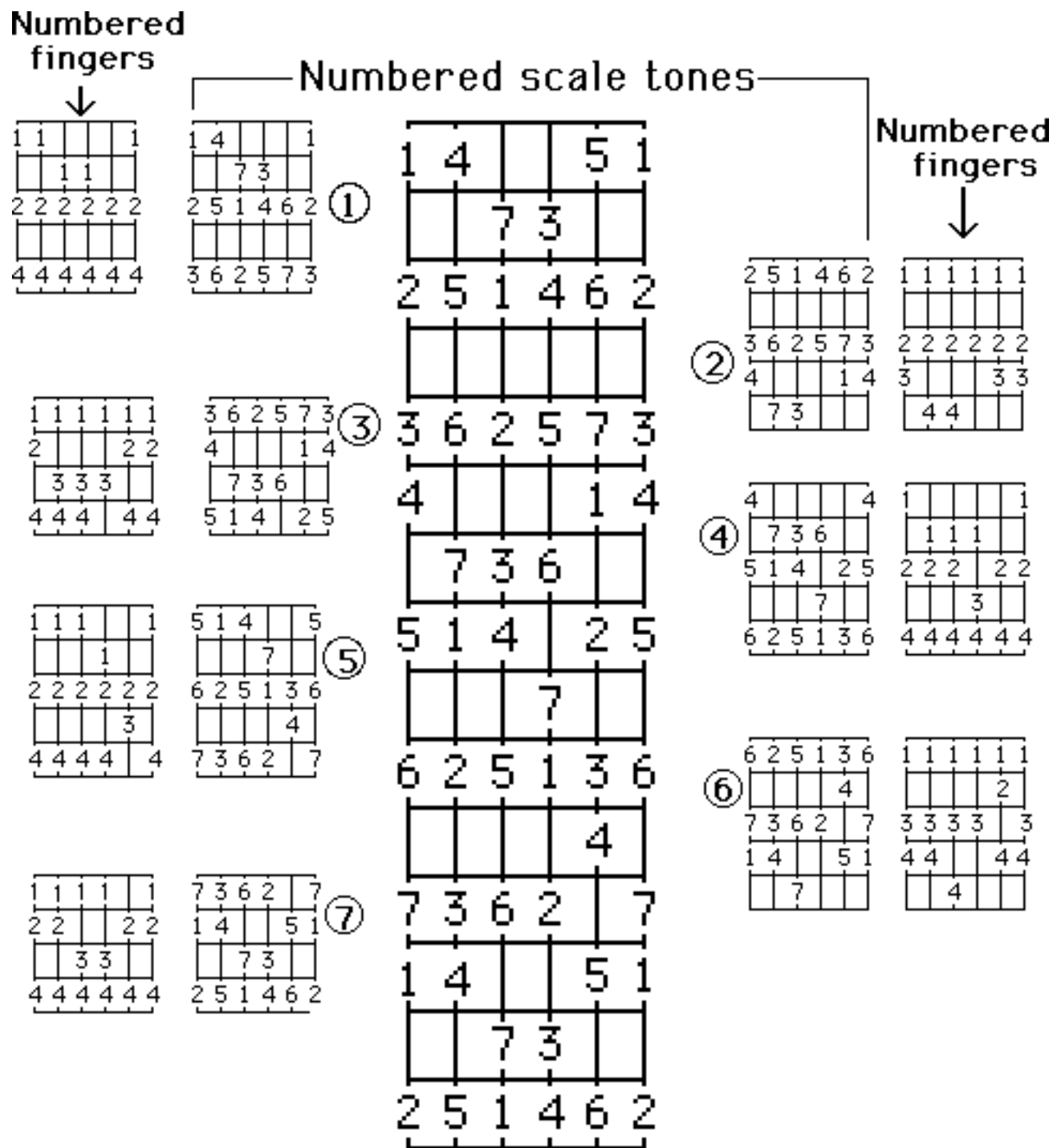


The fingerings below are shown in the key of G. They may be transposed to any key. The tone centers are circled. In the G major scale, all the “G” notes are circled. Look for the octave shapes in the circled notes. To transpose it to Bb major scale, move the fingerings up to where the the circled notes are on “Bb” notes.

G major scale



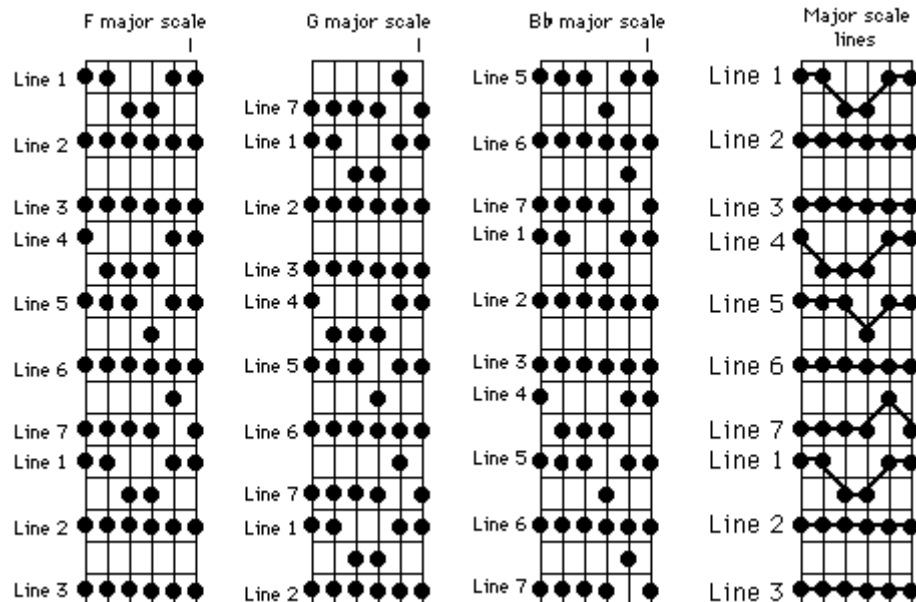
On the following page, the seven fingerings above are shown as consecutive segments of a full fretboard pattern. Fingering 1 is in the top of the full fretboard pattern, followed by fingering 2 below it, and so on. This pattern repeats every twelve frets. The seven fingerings are numbered after the scale step of the lowest-pitched note on the sixth string.



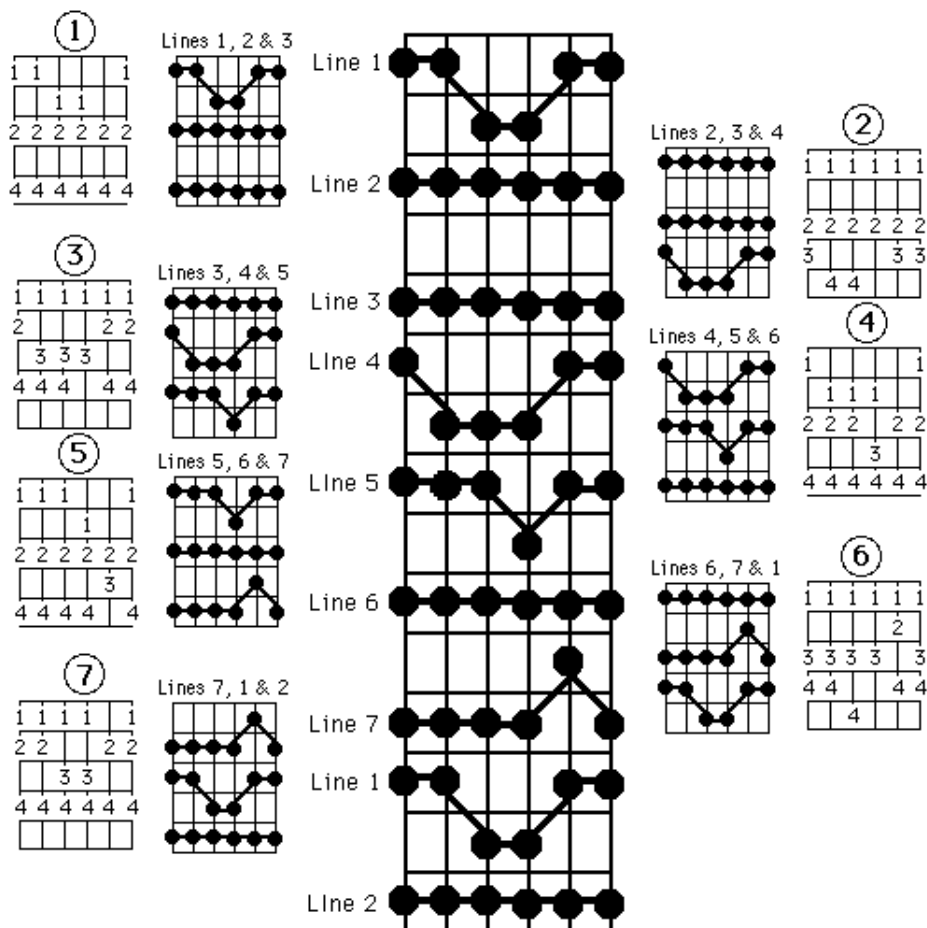
B. VISUALIZATION OF MAJOR SCALE "LINES."

The *full fretboard major scale* includes every note on the fretboard in a particular major scale. Dots on the diagrams below represent major scale tones. The pattern is identical for every key, but starts at a different point. The pattern repeats every twelve frets.

Major scale lines are parallel to the frets which occur in the full fretboard major scale pattern. These are illustrated on the diagram at the right below with horizontal lines connecting the dots.

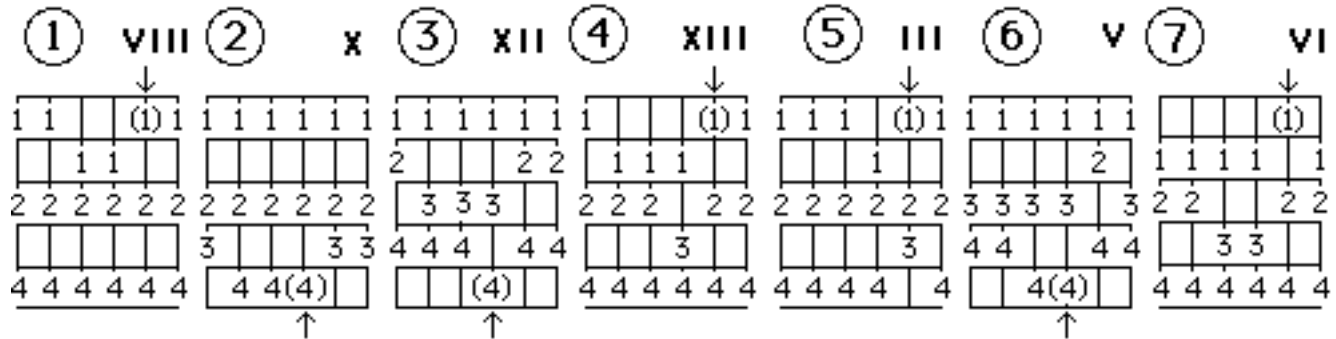


Constructing fingerings with major scale lines. The diagrams on the next page illustrate that the seven fingerings shown in Section A are constructed from groups of three consecutive major scale lines. For each group of three consecutive major scale lines, one note on the second string is the same pitch as a note on the third string. One of these notes is omitted in each of the seven fingerings (Section A) to avoid repeating a note.



Optional fingerings. In fingerings 1, 4, 5 and 6, the note fingered with the little finger on the third string may optionally be fingered by reaching with the index finger on the second string. In fingerings 2, 3 and 7, the note fingered with the index finger on the second string can optionally be fingered with the little finger on the third string.

C major scale



Moving diagonally across the fretboard or playing chromatic notes (those not in the scale of the key) requires the use of twelve strict vertical major scale fingerings.

When you move up or down from any scale tone to the next higher or lower tone, using the same finger twice in a row, you have changed to another fingering. To insure that a new fingering will be available for any such change, twelve fingerings are necessary. Four of the additional five fingerings are variations of fingerings 1, 2, 5 and 6 (identified with an "a"). Fingering "3/4" combines fingerings 3 and 4.

Notes in parenthesis shown on the twelve diagrams on the next page indicate optional fingerings of notes to be used in hammering, pulling off or sliding.

Playing chromatic notes (those between existing scale notes) may require changing the current fingering to a fingering up or down one position. For example, when two particular scale tones a whole step apart are fingered with the first and second fingers, it can be awkward to play the note in-between. In such a case it is advisable to use the fingering down one position (to the players left). When a chromatic tone is desired between a whole step fingered with the third and fourth fingers, move up a position and finger the whole step with the second and fourth fingers.

C Major Scale In All Twelve Positions

Diagram illustrating the C Major Scale in all twelve positions, showing fingerings (1-4) and string numbers (1-6) for each position:

- (7) VI
- (1a) VII
- (1) VIII
- (2a) IX
- (2) X
- (3) XII
- (3/4) XII
- (4) I or XIII
- (5a) II
- (5) III
- (6) IV
- (6a) V

The three note per string major scale fingerings below are combinations of the above fingerings.

C Major Scale - Three Notes Per String

Diagram illustrating the C Major Scale - Three Notes Per String, showing fingerings (1-4) and string numbers (1-6) for each position:

- (1) VIII
- (2) X
- (3) XII
- (4) I
- (5) III
- (6) V
- (7) VII

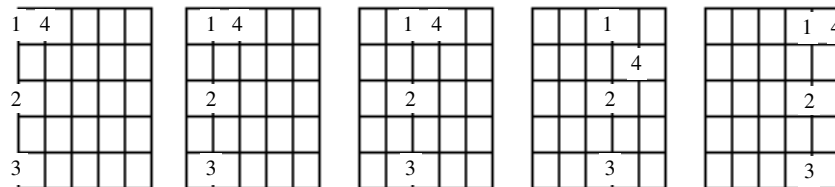
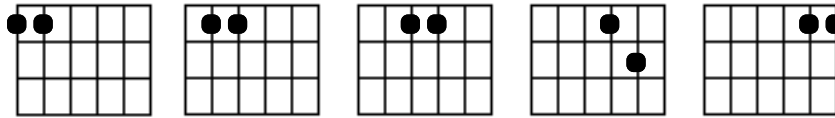
Three Notes Per String Fingerings With A Shift In Position. These fingerings are the same as those on the previous page with an added shift in position performed by using the same finger twice in a row on the same string. In the fingerings below, the shift is consistently on the sixth string.

Diagram illustrating the C Major Scale - Three Notes Per String with a shift in position, showing fingerings (1-4) and string numbers (1-6) for each position:

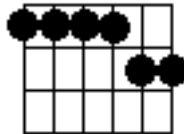
- 1
- 2
- 3
- 4
- 5
- 6
- 7

C. MAJOR SCALE-TONE STACKED PERFECT FOURTHS

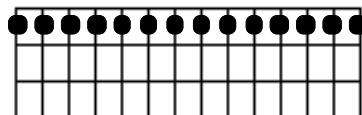
A *perfect fourth* is an interval equal to that between the first and fourth notes of a major scale. The interval looks graphically the same on all adjacent pairs of strings except the second and third string. The lower row of diagrams illustrate perfect fourths spanning major scale steps “1” through “4”.



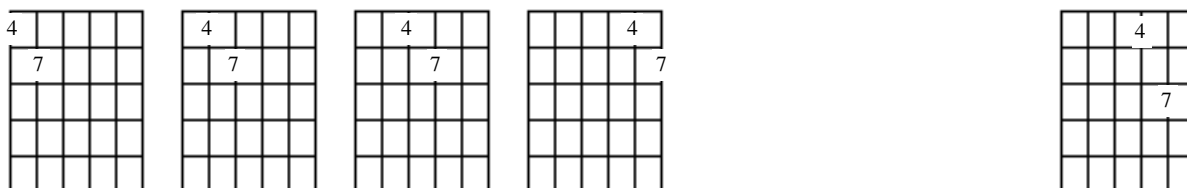
Stacked perfect fourths are successive perfect fourths. They occur on the fretboard in this shape:

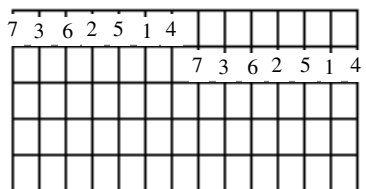


Scale fingering on the guitar would be greatly simplified if it were tuned entirely in perfect fourths. Chords, however, would be difficult to finger. The diagram below is a hypothetical fourteen-string guitar, tuned entirely in perfect fourths. The dots indicate stacked fourths.

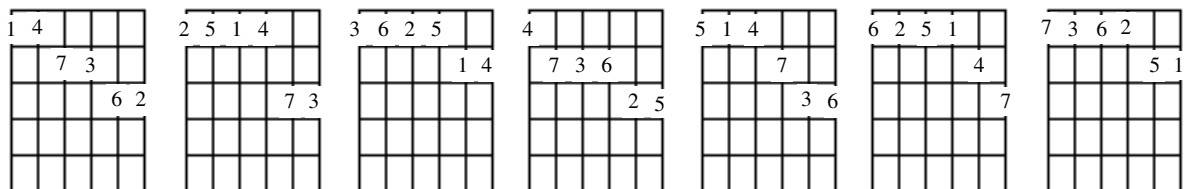


The major scale tone sequence “7, 3, 6, 2, 5, 1, 4” forms stacked perfect fourths. The scale tone four steps above major scale tone “4” is major scale tone “7”. The interval from major scale tone “4” to major scale tone “7” is an augmented fourth. The interval from “4” to “7” are shown below. On all adjacent pairs of strings tuned in perfect fourths, the interval shapes are the same. On the second and third strings (which are *not* tuned in perfect fourths), major scale-tone “4” to “7” looks like this:

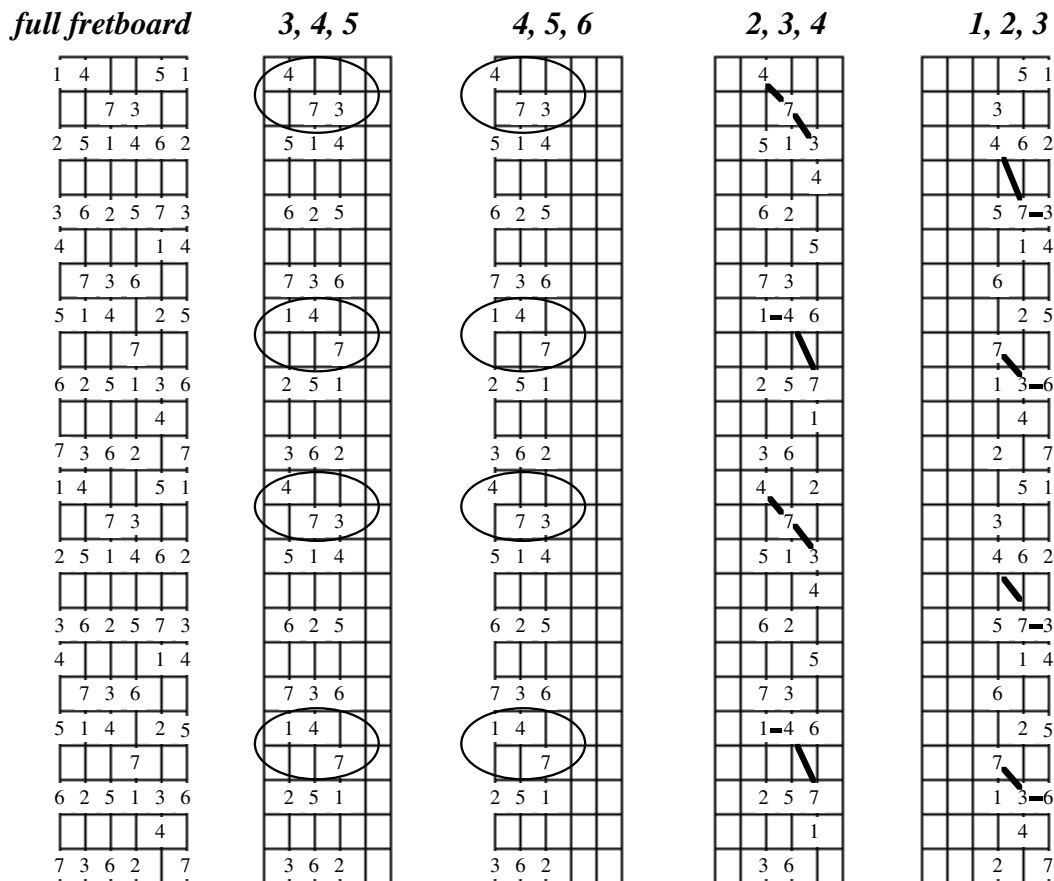


[illegible]

- When the interval from major scale-tones “4” to “7” is involved.
- When the interval of a fourth is played on strings two and three.



The diagram at the far left below shows a movable full-fretboard view of the major scale. By viewing the stacked perfect fourths on the third, fourth and fifth strings, the information is simple enough to be easily memorized.

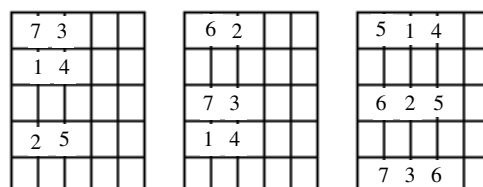


Similarities In Three-Note-Per-String Fingerings

When playing the major scale in a three-note-per-string fashion, the same finger pattern is used when the index finger begins on steps “7” and “3”. Likewise, the same finger pattern is used when the index finger begins on steps “6” and “2”. Finally, the same finger pattern is used when the index finger begins on steps “5”, “1” and “4”. Here is an explanation in detail:

- (1) Major scale tones “7, 1, 2” form the same pattern as “3, 4, 5”: half step (1 fret) then whole step (2 frets).
- (2) Major scale tones “6, 7, 1” form the same pattern as “2, 3, 4”: whole step (2 frets) then half step (1 fret).
- (3) Major scale tones “1, 2, 3” form the same pattern as “4, 5, 6” or “5, 6, 7”: whole step (2 frets) then half step (1 fret).

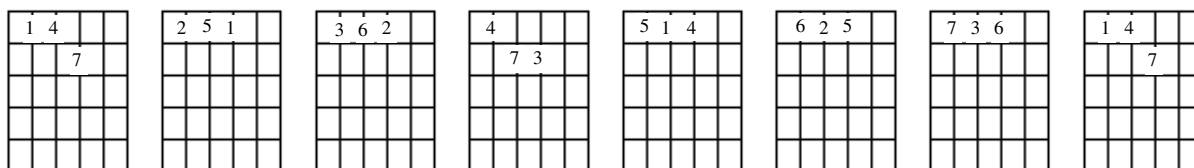
View these similarities on the diagrams below:



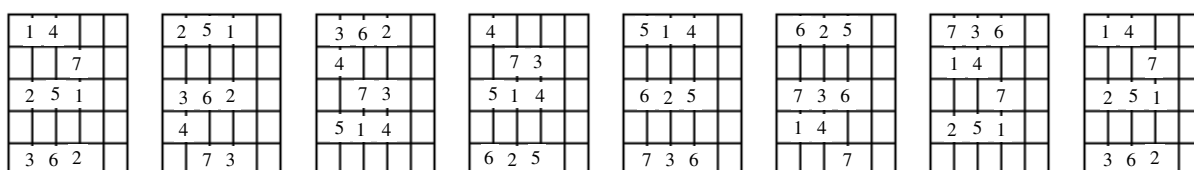
Memorizing The Major Scale Full-Fretboard Pattern.

Follow this procedure to memorize the full-fretboard major scale:

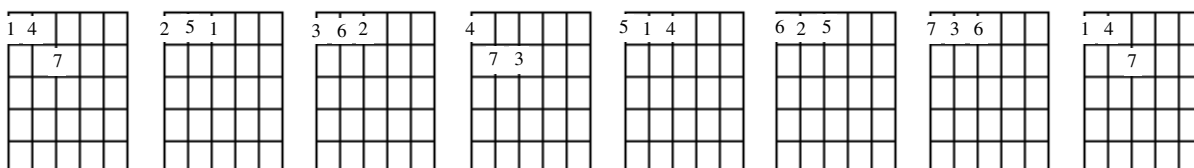
1. Memorize the major scale on the third, fourth and fifth strings (shown below). First, strum it in “chords” of stacked fourths.



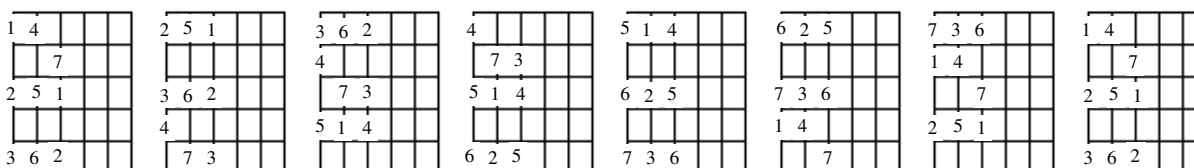
Next, play each of the nine-note groups (below) as a scale from lowest pitch to highest pitch and back.



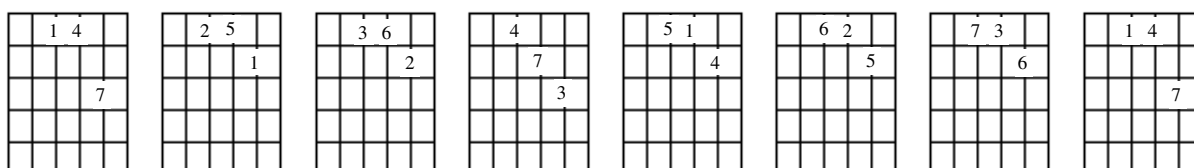
2. Review the pattern on the third, fourth and fifth strings (shown below). Play the same pattern five frets toward the bridge on the fourth, fifth and sixth strings.



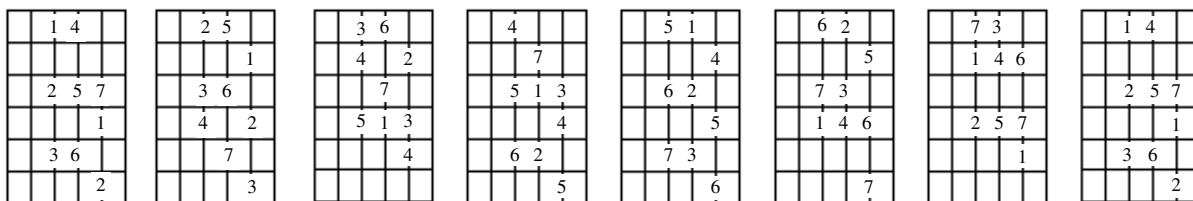
Next, play each of the nine-note groups (below) from lowest pitch to highest pitch and back.



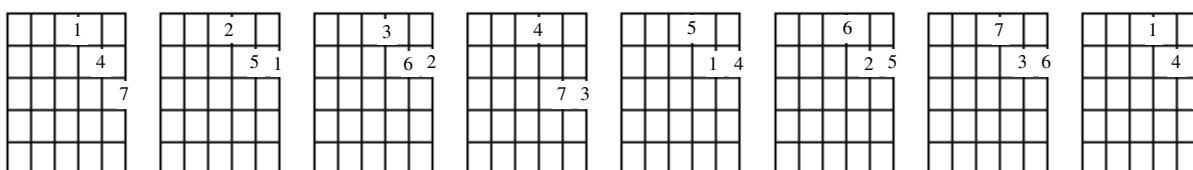
3. Review the pattern on the fourth, fifth and sixth strings (shown below). Play the pattern two frets toward the bridge on the second, third and fourth strings *except* move all notes on the second string up one fret.



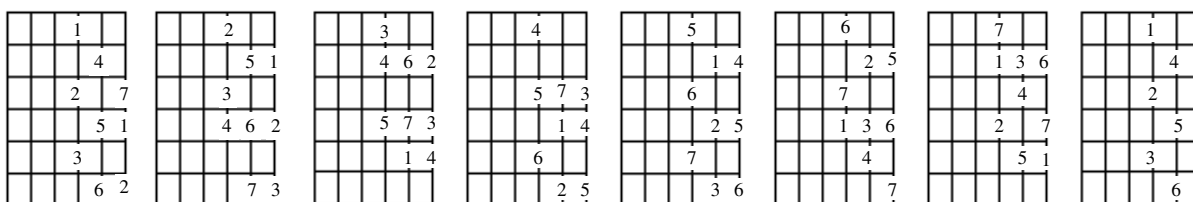
Next, play each of the nine-note groups (below) from lowest pitch to highest pitch and back.



4. Review the pattern on the third, fourth and fifth strings (shown below). Play the pattern two frets toward the bridge on the first, second and third strings *except* move all notes on the first *and* second strings up one fret.

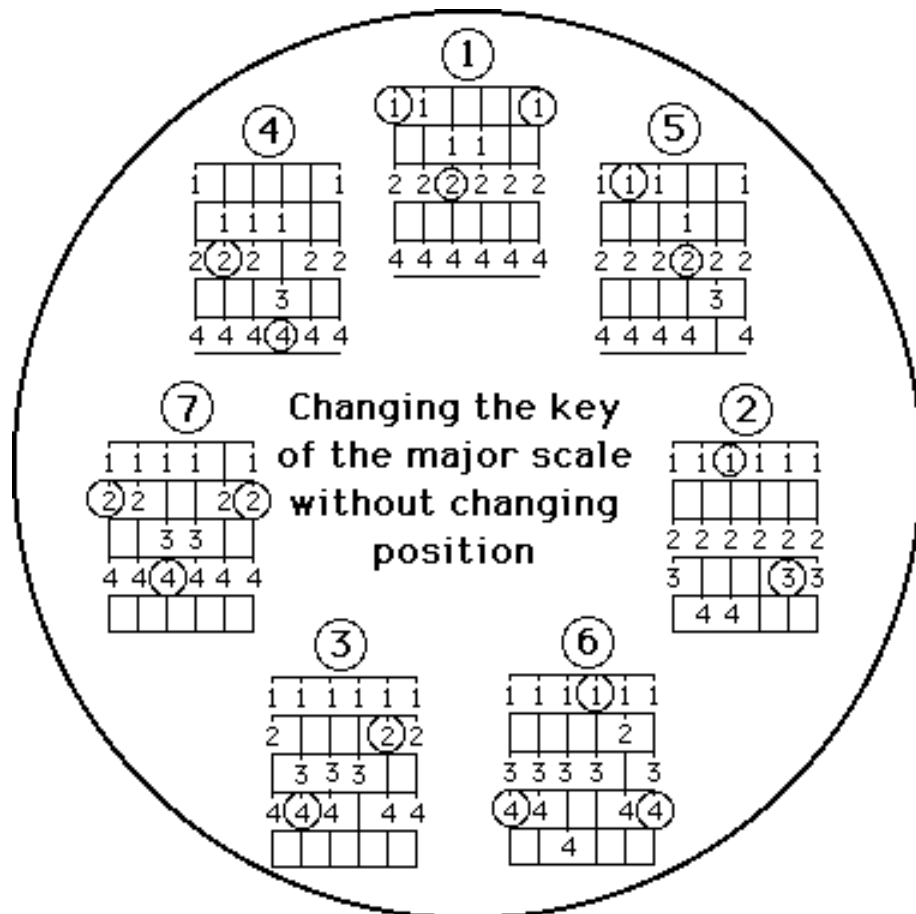


Finally, play each of the nine-note groups (below) from lowest pitch to highest pitch and back.



D. PERFECT FOURTH CYCLE OF SEVEN MAJOR SCALE FINGERING PATTERNS.

This illustrates the similarity in the seven basic major scale fingerings with key changes up or down a perfect fourth. The most common key changes are those up or down a perfect fourth. The corresponding major scale fingering patterns for keys a perfect fourth apart are identical except for the altering of a single note per octave.



When the major scale changes to a key up a perfect fourth, the seventh scale tone of the original major scale is flatted (lowered one half step). The tone center moves up a perfect fourth and the scale steps are numbered from there. Here is a detailed procedure:

- Start on any diagram in the circle (above). Counting the circled note as “1,” play through the scale from the lowest to highest pitch and back.
- Play the scale again with the seventh tone flat.
- The next fingering clockwise will be the same pattern except the circled tone center has moved up a perfect fourth.

When a major scale changes to a key down a perfect fourth, raise the fourth scale tone of the original scale up a half step. Move the tone center down a perfect fourth and number the scale steps from there. Here is a detailed procedure:

- Start on any diagram in the circle. Counting the circled note as “1,” play through the scale as it is written.
- Play the scale again with the fourth tone sharp.
- The next fingering counterclockwise will be the same pattern except the circled tone center has moved down a perfect fourth.

E. MODIFYING THE MAJOR SCALE TO FORM OTHER SEVEN TONE SCALES

The most useful seven-tone scales other than the major scale are harmonic minor, melodic minor and harmonic major. Each of them can be produced by altering one note in the major scale.

One way to produce harmonic minor is by using scale tone “6” of the major scale as a tone center and raising scale tone “5” of the major scale a half step (one fret). This method is appropriate for learning scale fingerings.

Another method of deriving harmonic minor scale from the major scale is more appropriate when thinking melodically. This method uses the mode system, where Aeolian mode is derived from the major scale, then Aeolian mode is altered to produce harmonic minor. To derive Aeolian mode from the major scale, designate major scale tone “6” as the tone center and re-number the scale tones with the previous major scale tone “6” as “1”. Then re-number the remaining scale tones in relation to a major scale on that note. You should get the numbers: “1, 2, b3, 4, 5, b6, b7”. These numbers are the Aeolian formula and indicate the alterations you would have to make to any major scale to make it Aeolian mode. Then, change the seventh note in the Aeolian scale from “b7” to “7” (natural seven, which raises it one half step, or 1 fret).

To derive the melodic minor scale from the major scale, flat the third. You should get the numbers: “1, 2, b3, 4, 5, 6, 7”.

To get the harmonic major scale from the major scale, flat the sixth. You should get the numbers: “1, 2, 3, 4, 5, b6, 7”.

By far, the most useful seven tone scales are major, harmonic minor, melodic minor, harmonic major, and the modes of those four scales. In many cases, it is better to think of the modes of one of these scales in terms of another, more familiar scale. For example, assigning the note on the fifth step of harmonic minor as the tone center could be called “Phrygian major third”, since it is the same as Phrygian, but has a natural third instead of a flatted third. If other sections of the piece of music use the harmonic minor scale from which it was derived, think of it as Phrygian major third. On the other hand, if other parts of the piece of music use Mixolydian on the same tone center as Phrygian major third, think of it as Mixolydian b2, b6.

In RPM Book 7, seven tone scales are named according to nine familiar scales:

- major scale
- Lydian mode (major #4)
- Mixolydian mode (major b7)
- Dorian mode (major b3, b7)
- Aeolian mode (major b3, b6, b7)
- harmonic minor scale (major b3, b6)
- Phrygian mode (major b2, b3, b6, b7)
- Locrian mode (major b2, b3, b5, b6, b7)
- melodic minor scale (major b3)